

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: \_\_\_\_\_ Examiner #: \_\_\_\_\_ Date: \_\_\_\_\_  
 Art Unit: \_\_\_\_\_ Phone Number 30 \_\_\_\_\_ Serial Number: \_\_\_\_\_  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept in mind of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_  
 Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

\*\*\*\*\*  
STAFF USE ONLY

Searcher: D. Schreiber  
 Searcher Phone #: 272-2526  
 Searcher Location: Rensselaer A61  
 Date Searcher Picked Up: 6/28  
 Date Completed: 18  
 Searcher Prep & Review Time: 18  
 Clerical Prep Time: 93  
 Online Time: 93

## Type of Search

NA Sequence (#) 15  
 AA Sequence (#) \_\_\_\_\_  
 Structure (#) \_\_\_\_\_  
 Bibliographic \_\_\_\_\_  
 Litigation \_\_\_\_\_  
 Fulltext \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_  
 Dialog \_\_\_\_\_  
 Questel/Orbit \_\_\_\_\_  
 Dr.Link \_\_\_\_\_  
 Lexis/Nexis \_\_\_\_\_  
 Sequence Systems Compuser  
 WWW/Internet \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

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# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 125827**

**TO: Terra Gibbs**  
**Location: rem/2d10/2c18**  
**Art Unit: 1635**  
**Monday, June 28, 2004**

**Case Serial Number: 10/069079**

**From: David Schreiber**  
**Location: Biotech-Chem Library**  
**Remsen E01A61**  
**Phone: 272-2526**

**david.schreiber@uspto.gov**

### **Search Notes**

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Schreiber, David

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125827

**From:** Gibbs, Terra  
**Sent:** Wednesday, June 23, 2004 11:59 AM  
**To:** Schreiber, David  
**Subject:** Sequeunce search request...

Hi David,

I have another request for a score over length search:

I need a length limited nucleotide sequence search of nucleobases 1-1000 of SEQ ID NO:1 in USSN 10/069,079, where the returns are rank ordered based on the score over length/ratio as we've discussed. I need the lengths limited to hits between 8 and 80 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not. I also need the interference databases searched if possible.

*Terra Cotta Gibbs, Ph.D.  
Art Unit 1635  
Remsen Building 2D10  
571-272-0758*

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# STIC SEARCH RESULT FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or contact:

Mary Hale, Information Branch Supervisor  
571-272-2507 Remsen E01 D86

## Voluntary Results-Feedback

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

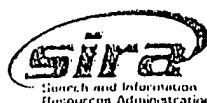
- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability)
- ☐ Results were not useful in determining patentability or understanding the invention

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.



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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 28, 2004, 08:01:38 ; Search time 2 Seconds  
(without alignments)  
3.083 Million cell updates/sec

Title: US-10-069-079-1

Perfect score: 1000

Sequence: 1 ccgagccctgagcagcg.....ctgcagctgtgcacatggaa 1000

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 172 seqs, 3083 residues

Total number of hits satisfying chosen parameters: 344

Minimum DB seq length: 8

Maximum DB seq length: 80

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 174 summaries

Database : rge1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query	Match	Length	ID	Description
1	26	2.6	26	1	AR123060	ACCESSION:AR123060
2	23	2.3	23	1	AR123058	ACCESSION:AR123058
3	21	2.1	21	1	AR123059	ACCESSION:AR123059
4	20.4	2.0	23	1	AX665280	ACCESSION:AX665280
5	20	2.0	20	1	AR123064	ACCESSION:AR123064
6	20	2.0	20	1	AR123065	ACCESSION:AR123065
7	20	2.0	20	1	AR123066	ACCESSION:AR123066
8	20	2.0	20	1	AR123067	ACCESSION:AR123067
9	20	2.0	20	1	AR123068	ACCESSION:AR123068
10	20	2.0	20	1	AR123069	ACCESSION:AR123069
11	20	2.0	20	1	AR123070	ACCESSION:AR123070
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38	15.8	1.6	21	1	AR084578	ACCESSION:AR084578
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c 120	13.8	1.4	18	1	AR098789	ACCESSION: AR098789
c 121	13.8	1.4	18	1	AR098791	ACCESSION: AR098791
c 122	13.8	1.4	18	1	BD123678	ACCESSION: BD123678
c 123	13.8	1.4	18	1	BD237949	ACCESSION: BD237949
c 124	13.8	1.4	18	1	AR242175	ACCESSION: AR242175
c 125	13.8	1.4	18	1	AR242759	ACCESSION: AR242759
c 126	13.8	1.4	18	1	AX014687	ACCESSION: AX014687
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c 147	13.4	1.3	17	1	AR397930	ACCESSION: AR397930
c 148	13.4	1.3	17	1	AX214999	ACCESSION: AX214999
c 149	13.4	1.3	17	1	AX216346	ACCESSION: AX216346
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c 155	13.4	1.3	17	1	AX693196	ACCESSION: AX693196
c 156	13.4	1.3	17	1	AX693199	ACCESSION: AX693199
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RESULT 1	ARI123060	LOCUS	ARI123060	DEFINITION	Sequence 4 from patent US 6168950.	26 bp	DNA	linear	PAT 16-MAY-2001
ACCESSION	ARI123060	VERSION	ARI123060.1	GI:14108026					
KEYWORDS		SOURCE	Unknown.						
ORGANISM			Unknown.						
REFERENCE			Unclassified.						
AUTHORS			1 (bases 1 to 26)						
TITLE			Monia,B.P., Gaarde,W., Ward,D.T. and Cowseert,L.M.						
JOURNAL			Antisense modulation of MEKK1 expression						
FEATURES			Patent: US 6168950-A 4 02-JAN-2001;						
			Location/Qualifiers						
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Best Local Similarity			100.0%;	Pred. No. 1.5;					
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Gaps			0;						
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Db	1	CGTCCAGGAGCAACGATGATCAGGGA	26						
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ACCESSION	ARI123058	VERSION	ARI123058.1	GI:14108024					
KEYWORDS		SOURCE	Unknown.						
ORGANISM			Unclassified.						
REFERENCE			1 (bases 1 to 23)						
AUTHORS			Monia,B.P., Gaarde,W., Ward,D.T. and Cowseert,L.M.						
TITLE			Antisense modulation of MEKK1 expression						
JOURNAL			Patent: US 6168950-A 2 02-JAN-2001;						
FEATURES			Location/Qualifiers						
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Gaps			0;						
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ACCESSION	ARI123059	VERSION	ARI123059.1	GI:14108025					
KEYWORDS		SOURCE	Unknown.						
ORGANISM			Unclassified.						
REFERENCE			1 (bases 1 to 21)						
AUTHORS			Monia,B.P., Gaarde,W., Ward,D.T. and Cowseert,L.M.						
TITLE			Antisense modulation of MEKK1 expression						
JOURNAL			Patent: US 6168950-A 3 02-JAN-2001;						
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## ALIGNMENTS

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Best Local Similarity 100.0%; Pred. No. 6.4;
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Db 21 TGAAGGCAACTGTATGCCAG 1

RESULT 4
AX665280
LOCUS AX665280 23 bp DNA linear PAT 26-MAR-2003
DEFINITION Sequence 38 from Patent WO03002765.
ACCESSION AX665280
VERSION AX665280.1 GI:29290405
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE Sellar, G.C. and Gabra, H.
JOURNAL Cancer
FEATURES Location/Qualifiers
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Qy 98 GCGAGCGGGCGGACTGGCGGCG 119
Db 2 GCGAGCGGGCGGCGGCTGGCGGCG 23

RESULT 5
AR123064/c
LOCUS AR123064 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 8 from patent US 6168950.
ACCESSION AR123064
VERSION AR123064.1 GI:14108030
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P., Gaarde, W., Ward, D.T. and Cowsert, L.M.
TITLE Antisense modulation of MEK1 expression
JOURNAL Patent: US 6168950-A 8 02-JAN-2001;
FEATURES Location/Qualifiers
source
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Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.5;
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Qy 13 GCAGCGCGCGCGGAGGAGC 32
Db 20 GCAGCGCGCGCGGAGGAGC 1

RESULT 6
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LOCUS AR123065 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 9 from patent US 6168950.
ACCESSION AR123065
VERSION AR123065.1 GI:14108031
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P., Gaarde, W., Ward, D.T. and Cowsert, L.M.
TITLE Antisense modulation of MEK1 expression
JOURNAL Patent: US 6168950-A 9 02-JAN-2001;
FEATURES Location/Qualifiers
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Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 44 GCAGCGCGCGCGGCTGCC 63
Db 20 GCAGCGCGCGCGGCTGCC 1

RESULT 7
AR123066/c
LOCUS AR123066 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 10 from patent US 6168950.
ACCESSION AR123066
VERSION AR123066.1 GI:14108032
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P., Gaarde, W., Ward, D.T. and Cowsert, L.M.
TITLE Antisense modulation of MEK1 expression
JOURNAL Patent: US 6168950-A 10 02-JAN-2001;
FEATURES Location/Qualifiers
source
1..20
/organism="unknown"
/mol_type="unassigned DNA"

Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 94 GGCGCGGAGCGCGGACTG 113
Db 20 GGCGCGGAGCGCGGACTG 1

RESULT 8
AR123067/c
LOCUS AR123067 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 11 from patent US 6168950.
ACCESSION AR123067
VERSION AR123067.1 GI:14108033
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P., Gaarde, W., Ward, D.T. and Cowsert, L.M.
TITLE Antisense modulation of MEK1 expression
JOURNAL Patent: US 6168950-A 11 02-JAN-2001;
FEATURES Location/Qualifiers
source
1..20
/organism="unknown"
/mol_type="unassigned DNA"

Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 94 GGCGCGGAGCGCGGACTG 113
Db 20 GGCGCGGAGCGCGGACTG 1

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Best Local Similarity 100.0%; Pred. No. 8.5;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 148 GAGCTGGACGAGTGGCTGA 167  
Db 20 GAGCTGGACGAGTGGCTGA 1

RESULT 9  
AR123068/c  
LOCUS AR123068 20 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 12 from patent US 6168950.  
ACCESSION AR123068  
VERSION AR123068.1 GI:14108034  
KEYWORDS  
SOURCE  
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Monia,B.P., Gaarde,W., Ward,D.T. and Cowser,L.M.  
TITLE Antisense modulation of MEK1 expression  
JOURNAL Patent: US 6168950-A 12 02-JAN-2001;  
FEATURES Location/Qualifiers  
source 1..20  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.5;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 230 CGGACGCGGGGAGTGGG 249  
Db 20 CGGACGCGGGGAGTGGG 1

RESULT 10  
AR123069/c  
LOCUS AR123069 20 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 13 from patent US 6168950.  
ACCESSION AR123069  
VERSION AR123069.1 GI:14108035  
KEYWORDS  
SOURCE  
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Monia,B.P., Gaarde,W., Ward,D.T. and Cowser,L.M.  
TITLE Antisense modulation of MEK1 expression  
JOURNAL Patent: US 6168950-A 13 02-JAN-2001;  
FEATURES Location/Qualifiers  
source 1..20  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.5;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 309 CCACCTTACCGAGTGGTGG 328  
Db 20 CCACCTTACCGAGTGGTGG 1

RESULT 11  
AR123070/c  
LOCUS AR123070 20 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 14 from patent US 6168950.  
ACCESSION AR123070  
VERSION AR123070.1 GI:14108036  
KEYWORDS  
SOURCE  
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Monia,B.P., Gaarde,W., Ward,D.T. and Cowser,L.M.  
TITLE Antisense modulation of MEK1 expression  
JOURNAL Patent: US 6168950-A 14 02-JAN-2001;  
FEATURES Location/Qualifiers  
source 1..20  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.5;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 444 AGAACTCTCAAGGGTTGC 463  
Db 20 AGAACTCTCAAGGGTTGC 1

RESULT 12  
AR177580  
LOCUS AR177580 21 bp DNA linear PAT 17-DEC-2001  
DEFINITION Sequence 20 from patent US 6312934.  
ACCESSION AR177580  
VERSION AR177580.1 GI:17919935  
KEYWORDS  
SOURCE  
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 21)  
AUTHORS Johnson,G.L.  
TITLE Human MEK1 proteins, corresponding nucleic acid molecules, and uses thereof  
JOURNAL Patent: US 6312934-A 20 06-NOV-2001;  
FEATURES Location/Qualifiers  
source 1..21  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.8%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 23;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 527 CAGCCTGGAAGCAGATGGT 547  
Db 1 CGCCTGGAAGCAGATGGT 21

RESULT 13  
I62739  
LOCUS I62739 20 bp DNA linear PAT 07-OCT-1997  
DEFINITION Sequence 2 from patent US 5660982.  
ACCESSION I62739  
VERSION I62739.1 GI:2480447  
KEYWORDS  
SOURCE  
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Tryggvason,K., Kallunki,P. and Pyke,C.  
TITLE Laminin chains: diagnostic uses  
JOURNAL Patent: US 5660982-A 2 26-AUG-1997;  
FEATURES Location/Qualifiers  
source 1..20  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 36;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 618 GAATCACTTAGCAGTGA 635  
|||||



Db 1 GAATCACTGAGCAGCTGA 18 0

RESULT 14  
AX060430/c  
LOCUS AX060430 21 bp DNA linear PAT 22-JAN-2001  
DEFINITION Sequence 50 from Patent WO0100841.  
ACCESSION AX060430  
VERSION AX060430.1 GI:12405907  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1  
AUTHORS Griffin, J., Carlile, A.J., Cayley, P.J., Mackay, E.A., Warner, S.A., Vincent, J.L. and Lee, M.D.  
TITLE Insecticidal proteins from paecilomyces and synergistic combinations thereof  
JOURNAL Patent: WO 0100841-A 50 04-JAN-2001;  
ZENECA LIMITED (GB)  
FEATURES  
source 1..21  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="primers"

Query Match 1.6%; Score 16.2; DB 1; Length 21;  
Best Local Similarity 85.7%; Pred. No. 44;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 171 GCCGCTCTTCCTGCGCGCTC 191  
Db 21 GCGGCTCTTCCTGCTGCCCC 1

RESULT 15  
AR086070/c  
LOCUS AR086070 18 bp DNA linear PAT 07-SEP-2000  
DEFINITION Sequence 54 from patent US 5985552.  
ACCESSION AR086070  
VERSION AR086070.1 GI:10012836  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Howell, M.D., Brostoff, S.W. and Carlo, D.J.  
TITLE Vaccination and methods against diseases resulting from pathogenic responses by specific T cell populations  
JOURNAL Patent: US 5985552-A 54 16-NOV-1999;  
FEATURES  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 32;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 160 CTGCCTGAGCAGCGCGC 175  
Db 16 CTGCCTGAGCAGCGCGC 1

RESULT 16  
ARI40424/c  
LOCUS ARI40424 18 bp DNA linear PAT 16-JUN-2001  
DEFINITION Sequence 54 from patent US 6207645.  
ACCESSION ARI40424  
VERSION ARI40424.1 GI:14482920  
KEYWORDS Unknown.  
SOURCE Unknown.

ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Howell, M.D., Brostoff, S.W. and Carlo, D.J.  
TITLE Vaccination and methods against diseases resulting from pathogenic responses by specific T cell populations  
JOURNAL Patent: US 6207645-A 54 27-MAR-2001;  
FEATURES  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 32;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 160 CTGCCTGAGCAGCGCGC 175  
Db 16 CTGCCTGAGCAGCGCGC 1

RESULT 17  
ARI46905/c  
LOCUS ARI46905 18 bp DNA linear PAT 08-AUG-2001  
DEFINITION Sequence 54 from patent US 6221352.  
ACCESSION ARI46905  
VERSION ARI46905.1 GI:15110708  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Howell, M.D., Brostoff, S.W. and Carlo, D.J.  
TITLE Method of preventing the proliferation of V.beta.14 or V.beta.17-Expressing T cells  
JOURNAL Patent: US 6221352-A 54 24-APR-2001;  
FEATURES  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 32;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 160 CTGCCTGAGCAGCGCGC 175  
Db 16 CTGCCTGAGCAGCGCGC 1

RESULT 18  
AR216777/c  
LOCUS AR216777 18 bp DNA linear PAT 25-SEP-2002  
DEFINITION Sequence 4 from patent US 6413516.  
ACCESSION AR216777  
VERSION AR216777.1 GI:23315710  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Chang, J.C.C., Brostoff, S.W. and Carlo, D.J.  
TITLE Peptides and methods against psoriasis  
JOURNAL Patent: US 6413516-A 4 02-JUL-2002;  
FEATURES  
source 1..18  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 1.6%; Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 32;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



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/organism="unknown"
/mol_type="unassigned DNA"

Query Match
  1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGGCGGCGGCGAGCTGGCG 132
Db 2 GCGGCGGCGGCGGCGGCGGC 20

RESULT 24
ARI130110
LOCUS ARI130110 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 13 from patent US 6187587.
ACCESSION ARI130110
VERSION ARI130110.1 GI:14118007
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Popoff,I., Brown-Driver,V.L. and Cowsert,L.M.
TITLE Antisense inhibition of e2f transcription factor 1 expression
JOURNAL Patent: US 6187587-A 13 13-FEB-2001;
FEATURES
  Location/Qualifiers
    source
      1..20
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match
  1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 14 CAGCGCGCGGCGGAGGAGC 32
Db 1 CAGCGCGCGGCGGCGGCGGC 19

RESULT 25
ARI149436
LOCUS ARI149436 20 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 7 from patent US 6228592.
ACCESSION ARI149436
VERSION ARI149436.1 GI:15114027
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Tsuji,A., Hirano,M., Koshimoto,H. and Ishibashi,K.
TITLE Nucleic acid detection in cytoplasm
JOURNAL Patent: US 6228592-A 7 08-MAY-2001;
FEATURES
  Location/Qualifiers
    source
      1..20
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match
  1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 744 AGGAGTAAGGAGAGAAAAGA 762
Db 2 AGGACTAAGGAGAGAAAAGA 20

RESULT 26
ARI149441
LOCUS ARI149441 20 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 12 from patent US 6228592.
ACCESSION ARI149441

/organism="unknown"
/mol_type="unassigned DNA"

Query Match
  1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 744 AGGAGTAAGGAGAGAAAAGA 762
Db 2 AGGACTAAGGAGAGAAAAGA 20

RESULT 27
E49408
LOCUS E49408 20 bp DNA linear PAT 31-JAN-2002
DEFINITION Method for detecting cytoplasmic target nucleic acid in living cell.
ACCESSION E49408
KEYWORDS JP 2001025400-A/7.
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 20)
AUTHORS Tsuji,A., Hirano,M., Koshimoto,H. and Ishibashi,K.
TITLE Method for detecting cytoplasmic target nucleic acid in living cell
JOURNAL Patent: JP 2001025400-A 7 30-JAN-2001;
COMMENT BUNSHI BIO HOTONIKUSU KENKYUSHO
OS Artificial Sequence
PN JP 2001025400-A/7
PD 30-JAN-2001
PF 28-DEC-1999 JP 1999373904
PR AKIHIKO TSUJI,MASAHIKO HIRANO,HIROYUKI KOSHIMOTO, PI KANAME
ISHIBASHI
PC C12Q1/68,C12N15/09//G01N21/78,C12N15/00
CC
FT Key Location/Qualifiers
FT source 1..20
FT /organism='Artificial Sequence'.

FEATURES
  source
    Location/Qualifiers
      1..20
        /organism="synthetic construct"
        /mol_type="genomic DNA"
        /db_xref="taxon:32630"

Query Match
  1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 744 AGGAGTAAGGAGAGAAAAGA 762
Db 2 AGGACTAAGGAGAGAAAAGA 20

RESULT 28
E49413
LOCUS E49413 20 bp DNA linear PAT 31-JAN-2002
DEFINITION Method for detecting cytoplasmic target nucleic acid in living cell.
ACCESSION E49413
VERSION E49413.1 GI:18629312
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KEYWORDS      JP 2001025400-A/12.
SOURCE         synthetic construct
ORGANISM       synthetic construct
REFERENCE      1 (bases 1 to 20)
AUTHORS        Tsuji,A., Hirano,M., Koshimoto,H. and Ishibashi,K.
TITLE          Method for detecting cytoplasmic target nucleic acid in living cell
JOURNAL        Patent: JP 2001025400-A 12 30-JAN-2001;
               BUNSHI BIO HOTONIKUSU KENKYUSHO
COMMENT        OS Artificial Sequence
               PN JP 2001025400-A/12
               PD 30-JAN-2001
               PF 28-DEC-1999 JP 1999373904
               PR
               PI AKIHIKO TSUJI,MASAHIKO HIRANO,HIROYUKI KOSHIMOTO, PI KANAME
               ISHIBASHI
               PC C12Q1/68,C12N15/09//G01N21/78,C12N15/00
               CC
               FH Key
               FT source
               FT Location/Qualifiers
               FT 1..20
               FT /organism='Artificial Sequence'.
               FT Location/Qualifiers
               FT 1..20
               FT /organism="synthetic construct"
               FT /mol_type="genomic DNA"
               FT /db_xref="taxon:32630"

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      744 AGGAGTAAGGAGAAAAGA 762
Db      2 AGGACTAAGGAGAAGA 20

RESULT 29
LOCUS      AR182885                20 bp      DNA      linear      PAT 20-APR-2002
DEFINITION Sequence 57 from patent US 6339068.
ACCESSION  AR182885
VERSION     AR182885.1 GI:20226092
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS     Krieg,A.M., Davis,H.L., Wu,T. and Schorr,J.
TITLE       Vectors and methods for immunization or therapeutic protocols
JOURNAL     Patent: US 6339068-A 57 15-JAN-2002;
FEATURES    Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      113 GCGCGCGCGCGAGCTCG 131
Db      1 GCGCGCGCGCGCGCGCG 19

RESULT 30
LOCUS      AR298141/c              20 bp      DNA      linear      PAT 12-JUN-2003
DEFINITION Sequence 9876 from patent US 6537751.
ACCESSION  AR298141
VERSION     AR298141.1 GI:31685425
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unknown.
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Unclassified.
1 (bases 1 to 20)
Cohen,D., Chumakov,I. and Blumenfeld,M.
Biallelic markers for use in constructing a high density
disequilibrium map of the human genome
Patent: US 6537751-A 9876 25-MAR-2003;
FEATURES    Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="genomic DNA"

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      428 GTGAGATGGAGATAAGA 446
Db      20 GTGAGATGGAAGTAAAGA 2

RESULT 31
LOCUS      AX104051                20 bp      DNA      linear      PAT 30-APR-2001
DEFINITION Sequence 243 from Patent WO0122972.
ACCESSION  AX104051
VERSION     AX104051.1 GI:13920248
KEYWORDS    synthetic construct
SOURCE      synthetic construct
ORGANISM     artificial sequences.
REFERENCE   1
AUTHORS     Krieg,A.M., Schetter,C. and Vollmer,J.C.
TITLE       Immunostimulatory nucleic acids
JOURNAL     Patent: WO 0122972-A 243 05-APR-2001;
            UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
            GmbH (DE)
FEATURES    Location/Qualifiers
            source
            1..20
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      113 GCGCGCGCGCGAGCTCG 131
Db      1 GCGCGCGCGCGCGCGCG 19

RESULT 32
LOCUS      AX355382                20 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION Sequence 410 from Patent WO0197843.
ACCESSION  AX355382
VERSION     AX355382.1 GI:18620050
KEYWORDS    synthetic construct
SOURCE      synthetic construct
ORGANISM     artificial sequences.
REFERENCE   1
AUTHORS     Weiner,G. and Hartmann,G.
TITLE       Methods for enhancing antibody-induced cell lysis and treating
            cancer
JOURNAL     Patent: WO 0197843-A 410 27-DEC-2001;
            UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES    Location/Qualifiers
            source
            1..20
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
            /note="Synthetic oligonucleotide-phosphodiester backbone"
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Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 45;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTGCG 131  
|||||  
Db 1 GCGCGCGCGCGCGCGCGCG 19

RESULT 33  
AX547104  
LOCUS AX547104 20 bp DNA linear PAT 01-MAR-2003  
DEFINITION Sequence 243 from Patent WO02053141.  
ACCESSION AX547104  
VERSION AX547104.1 GI:25812248  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.

REFERENCE 1  
AUTHORS Bratzler,R.L.  
TITLE Inhibition of angiogenesis by nucleic acids  
JOURNAL Patent: WO 02053141-A 243 11-JUL-2002;  
Coley Pharmaceutical Group, Inc. (US)  
FEATURES  
Location/Qualifiers  
source 1..20  
/organism="synthetic construct"  
/mol\_type="synthetic construct"  
/db\_xref="taxon:32630"  
/note="Synthetic Sequence"

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 45;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTGCG 131  
|||||  
Db 1 GCGCGCGCGCGCGCGCGCG 19

RESULT 34  
BD069976  
LOCUS BD069976 20 bp DNA linear PAT 27-AUG-2002  
DEFINITION Use of nucleic acids containing unmethylated CPG dinucleotide in the treatment of LPS-associated disorders.

ACCESSION BD069976  
VERSION BD069976.1 GI:22615579  
KEYWORDS JP 2001513776-A/65.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Schwartz,D.A. and Krieg,A.M.  
TITLE Use of nucleic acids containing unmethylated CPG dinucleotide in the treatment of LPS-associated disorders  
JOURNAL Patent: JP 2001513776-A 65 04-SEP-2001;  
UNIVERSITY OF IOWA RESEARCH FOUNDATION

COMMENT OS Artificial Sequence  
PN JP 2001513776-A/65  
PD 04-SEP-2001  
PF 25-FEB-1998 JP 1998537810  
PR 28-FEB-1997 US 60/039405  
PI DAVID A. SCHWARTZ,ARTHUR M. KRIEG  
PC A61K49/00,C07H21/02,C07H21/04,A01N43/04  
CC synthetic oligonucleotide  
FH Key  
FT source 1..20  
Location/Qualifiers  
/organism="Artificial Sequence".

FEATURES  
source 1..20  
/organism="synthetic construct"  
/mol\_type="genomic DNA"

/db\_xref="taxon:32630"

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 45;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTGCG 131  
|||||  
Db 1 GCGCGCGCGCGCGCGCGCG 19

RESULT 35  
AR084563/c  
LOCUS AR084563 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 52 from patent US 5981185.  
ACCESSION AR084563  
VERSION AR084563.1 GI:10011334  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.

REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 52 09-NOV-1999;  
FEATURES  
Location/Qualifiers  
source 1..21  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTGCG 131  
|||||  
Db 20 GCGCGCGCGCGCGCGCGCG 2

RESULT 36  
AR084566/c  
LOCUS AR084566 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 55 from patent US 5981185.  
ACCESSION AR084566  
VERSION AR084566.1 GI:10011337  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.

REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 55 09-NOV-1999;  
FEATURES  
Location/Qualifiers  
source 1..21  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTGCG 131  
|||||  
Db 19 GCGCGCGCGCGCGCGCGCG 1

RESULT 37  
AR084567  
LOCUS AR084567 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 56 from patent US 5981185.  
ACCESSION AR084567  
VERSION AR084567.1 GI:10011338

KEYWORDS  
SOURCE Unknown.  
ORGANISM Unassigned.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 56 09-NOV-1999;  
FEATURES Location/Qualifiers  
source  
1. .21  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 113 GCGCGCGCGCGCAGCTGCG 131  
Db 2 GCGCGCGCGCGCGCGCG 20  
RESULT 38  
AR084578/c  
LOCUS AR084578 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 67 from patent US 5981185.  
ACCESSION AR084578  
VERSION AR084578.1 GI:10011349  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unassigned.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 67 09-NOV-1999;  
FEATURES Location/Qualifiers  
source  
1. .21  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 113 GCGCGCGCGCGCAGCTGCG 131  
Db 21 GCGCGCGCGCGCGCGCG 3  
RESULT 39  
AR084579  
LOCUS AR084579 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 68 from patent US 5981185.  
ACCESSION AR084579  
VERSION AR084579.1 GI:10011350  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unassigned.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 68 09-NOV-1999;  
FEATURES Location/Qualifiers  
source  
1. .21  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTGCG 131  
Db 3 GCGCGCGCGCGCGCGCG 21  
RESULT 40  
AR084582  
LOCUS AR084582 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 71 from patent US 5981185.  
ACCESSION AR084582  
VERSION AR084582.1 GI:10011353  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unassigned.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 71 09-NOV-1999;  
FEATURES Location/Qualifiers  
source  
1. .21  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 113 GCGCGCGCGCGCAGCTGCG 131  
Db 1 GCGCGCGCGCGCGCGCG 19  
RESULT 41  
AR093142  
LOCUS AR093142 21 bp DNA linear PAT 08-SEP-2000  
DEFINITION Sequence 11 from patent US 5998596.  
ACCESSION AR093142  
VERSION AR093142.1 GI:10019894  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unassigned.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Bergan,R. and Neckers,L.  
TITLE Inhibition of protein kinase activity by aptameric action of oligonucleotides  
JOURNAL Patent: US 5998596-A 11 07-DEC-1999;  
FEATURES Location/Qualifiers  
source  
1. .21  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 51;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 113 GCGCGCGCGCGCAGCTGCG 131  
Db 1 GCGCGCGCGCGCGCGCG 19  
RESULT 42  
AX215323  
LOCUS AX215323 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 765 from Patent WO0159103.  
ACCESSION AX215323  
VERSION AX215323.1 GI:15525366  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1

AUTHORS: Blatt, L., McSwiggen, J. and Chowrira, B.M.  
TITLE: Method and reagent for the modulation and diagnosis of cd20 and  
nogo gene expression  
JOURNAL: Patent: WO 0159103-A 765 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
McSwiggen, James (US); Chowrira, Bharat M. (US)

## FEATURES

source  
1. .17  
/organism="synthetic construct"  
/mol\_type="unassigned RNA"  
/db\_xref="taxon:32630"  
/note="Nucleic Acid"

Query Match 1.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 35;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 114 GCGGCGCGCGCAGCTGC 130

DB 1 GCGGCGCGCAGCTGC 17

## RESULT 43

LOCUS AX216895 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 2337 from Patent W00159103.  
ACCESSION AX216895  
VERSION AX216895.1 GI:15526956

KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.

## REFERENCE

1 Blatt, L., McSwiggen, J. and Chowrira, B.M.  
AUTHORS Method and reagent for the modulation and diagnosis of cd20 and  
TITLE nogo gene expression  
JOURNAL Patent: WO 0159103-A 2337 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
McSwiggen, James (US); Chowrira, Bharat M. (US)

## FEATURES

source  
1. .17  
/organism="synthetic construct"  
/mol\_type="unassigned RNA"  
/db\_xref="taxon:32630"  
/note="Nucleic Acid"

Query Match 1.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 35;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 111 CTGGCGCGCGCGCAGC 127

DB 1 CCGCGCGCGCGCAGC 17

## RESULT 44

LOCUS AX216896 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 2338 from Patent W00159103.  
ACCESSION AX216896  
VERSION AX216896.1 GI:15526957

KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.

## REFERENCE

1 Blatt, L., McSwiggen, J. and Chowrira, B.M.  
AUTHORS Method and reagent for the modulation and diagnosis of cd20 and  
TITLE nogo gene expression  
JOURNAL Patent: WO 0159103-A 2338 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
McSwiggen, James (US); Chowrira, Bharat M. (US)

## FEATURES

Location/Qualifiers

## source

1. .17  
/organism="synthetic construct"  
/mol\_type="unassigned RNA"  
/db\_xref="taxon:32630"  
/note="Nucleic Acid"

Query Match 1.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 35;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 114 GCGGCGCGCGCAGCTGC 130

DB 1 GCGGCGCGCGCAGCAGC 17

## RESULT 45

LOCUS AR124487 20 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 56 from patent US 6171860.  
ACCESSION AR124487  
VERSION AR124487.1 GI:14109848

KEYWORDS  
SOURCE Unknown.

## ORGANISM

Unclassified.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Baker, B.F. and Cowser, L.M.  
TITLE Antisense inhibition of rank expression  
JOURNAL Patent: US 6171860-A 56 09-JAN-2001;  
FEATURES Location/Qualifiers

## source

1. .20  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.5%; Score 15.2; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 56;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 294 CAGCGCGCGCGCGCCACC 313

DB 1 CAGCGCGCGCGCGCCCTCC 20

## RESULT 46

LOCUS E43717 20 bp DNA linear PAT 27-AUG-2002  
DEFINITION Method for detecting abnormality in IRF-1 gene.  
ACCESSION E43717  
VERSION E43717.1 GI:22554626

KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
artificial sequences.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Takami, S., Kinoshita, S., Tada, S. and Saito, H.  
TITLE Method for detecting abnormality in IRF-1 gene  
JOURNAL Patent: JP 2001136973-A 4 22-MAY-2001;  
OTSUKA PHARMACEUT CO LTD

## COMMENT

PN JP 2001136973-A/4  
PD 22-MAY-2001  
PF 16-NOV-1999 JP 1999324975  
PI SATOSHI TAKAMI, SHIGETOSHI KINOSHITA, SHINICHIRO TADA, HIDEITSUGU  
PI SAITO  
PC C12N15/09, C12Q1/68, C12Q1/68, G01N33/50, C12N15/00 CC IRF-1  
RFLP R primer  
FH Key Location/Qualifiers

## FEATURES

source  
1. .20  
/organism="synthetic construct"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:32630"

## Query Match

1.5%; Score 15.2; DB 1; Length 20;

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Best Local Similarity 85.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 203 CCTGACTTCCCTCGCGC 222
Db 20 CCTGACTTCCCTCGCGC 1

RESULT 47
AR294598/c
LOCUS AR294598 20 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 6333 from patent US 6537751.
ACCESSION AR294598
VERSION AR294598.1 GI:31681882
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cohen, D., Chumakov, I. and Blumenfeld, M.
TITLE Biallelic markers for use in constructing a high density
disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 6333 25-MAR-2003;
FEATURES
Location/Qualifiers
source
1..20
/mol_type="genomic DNA"
/organism="unknown"

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 550 GAAAGGAGAAATAGCGAGG 569
Db 20 GAAATGAGAAATAGCGAGG 1

RESULT 48
AX019252
LOCUS AX019252 20 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 6 from Patent WO941380.
ACCESSION AX019252
VERSION AX019252.1 GI:10043277
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Vercelli, D. and Agresti, A.
TITLE The regulatory sequence of gamma -4 germline (gl) transcript and
its applications
JOURNAL Patent: WO 941380-A 6 19-AUG-1999;
VERCELLI DONATA (IT); AGRESTI ALESSANDRA (IT)
FEATURES
Location/Qualifiers
source
1..20
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 367 GAGCCGGGAGAGCGGCG 386
Db 1 GAGGCTGGGAGAGCGGCG 20

RESULT 49
AX224990/c
LOCUS AX224990 20 bp DNA linear PAT 10-SEP-2001
DEFINITION Sequence 144 from Patent WO0161030.

Best Local Similarity 85.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGC 127
Db 2 GCGCGCGCGCGCAGC 16

RESULT 51
AR052029/c
LOCUS AR052029 18 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 15 from patent US 5830756.
ACCESSION AR052029
VERSION AR052029.1 GI:5975393
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
```

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AX224990
VERSION AX224990.1 GI:15555063
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Gray, D.M. and Bollon, A.P.
TITLE Libraries of optimum subsequence regions of mrna and genomic dna
for control of gene expression
JOURNAL Patent: WO 0161030-A 144 23-AUG-2001;
CYTOSIGNAL Pharmaceuticals, Inc. (US); University of Texas at
Dallas, Dept. of Molecular and Cell Biology (US); Lab. of
Experimental Carcinogenesis, National Cancer Institute/NIH (US)
FEATURES
Location/Qualifiers
source
1..20
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 299 GCGCGCGCGCCACCTTACC 318
Db 20 GCGCGCGCGCCACATCTCC 1

RESULT 50
AX216347
LOCUS AX216347 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 1789 from Patent WO0159103.
ACCESSION AX216347
VERSION AX216347.1 GI:15526408
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Blatt, L., McSwiggen, J. and Chowrira, B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and
nogo gene expression
JOURNAL Patent: WO 0159103-A 1789 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);
McSwiggen, James (US); Chowrira, Bharat M. (US)
FEATURES
Location/Qualifiers
source
1..17
/mol_type="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Nucleic Acid"

Query Match 1.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 40;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGC 127
Db 2 GCGCGCGCGCGCAGC 16

RESULT 51
AR052029/c
LOCUS AR052029 18 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 15 from patent US 5830756.
ACCESSION AR052029
VERSION AR052029.1 GI:5975393
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
```



REFERENCE 1 (bases 1 to 18)  
AUTHORS Haskill, J. Stephen., Baldwin, A.S. Jr. and Ralph, P.  
TITLE DNA and expression vector encoding I.kappa.B Protein  
JOURNAL Patent: US 5830756-A 15 03-NOV-1998;  
FEATURES Location/Qualifiers  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 47;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 531 CTGAAGCAGCAATG 545  
Db 15 CTGAAGCAGCAATG 1

RESULT 52  
AR063606/c  
LOCUS 18 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 15 from patent US 5846714.  
ACCESSION AR063606  
VERSION AR063606.1 GI:5992914  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Haskill, J. Stephen., Baldwin, A.S. Jr. and Ralph, P.  
TITLE Method of identifying a chemical that alters dissociation of an NF-KB/IKB complex  
JOURNAL Patent: US 5846714-A 15 08-DEC-1998;  
FEATURES Location/Qualifiers  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 47;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 531 CTGAAGCAGCAATG 545  
Db 15 CTGAAGCAGCAATG 1

RESULT 53  
AR093858/c  
LOCUS 18 bp DNA linear PAT 08-SEP-2000  
DEFINITION Sequence 15 from patent US 6001582.  
ACCESSION AR093858  
VERSION AR093858.1 GI:10020604  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Haskill, J. Stephen., Baldwin, A.S. Jr. and Ralph, P.  
TITLE Inhibitor of NF-kappa.B transcriptional activator and uses thereof  
JOURNAL Patent: US 6001582-A 15 14-DEC-1999;  
FEATURES Location/Qualifiers  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 47;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 531 CTGAAGCAGCAATG 545  
Db 15 CTGAAGCAGCAATG 1

RESULT 54  
A65727  
LOCUS 18 bp DNA linear PAT 29-MAR-1999  
DEFINITION Sequence 8 from Patent WO9735973.  
ACCESSION A65727  
VERSION A65727.1 GI:4531346  
KEYWORDS  
SOURCE unidentified  
ORGANISM unidentified  
REFERENCE 1  
AUTHORS Lenzen, G., Pietri-Rouxel, F., Drumare, Marie-Francoise and Strosberg, A.D.  
TITLE CANINE beta 2- AND beta 3-ADRENERGIC RECEPTORS AND USE THEREOF  
JOURNAL Patent: WO 9735973-A 8 02-OCT-1997;  
COMMENT VETIGEN (FR)  
FEATURES Other publication FR 2746813 19971003.  
Location/Qualifiers  
source 1..18  
/organism="unidentified"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32844"

Query Match 1.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 50;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 390 CGCGCGGAGCGCTCTCC 407  
Db 1 CGCGCGGAGCGCTCTCC 18

RESULT 55  
AR039651  
LOCUS 18 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 499 from patent US 5807743.  
ACCESSION AR039651  
VERSION AR039651.1 GI:5959014  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Stinchcomb, D.T. and McSwiggen, J.A.  
TITLE Interleukin-2 receptor gamma-chain ribozymes  
JOURNAL Patent: US 5807743-A 499 15-SEP-1998;  
FEATURES Location/Qualifiers  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 50;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 405 TCCTGCAGCGCGCCCGC 422  
Db 1 TCCTGCAGCGCGCCCGC 18

RESULT 56  
AR105620/c  
LOCUS 18 bp DNA linear PAT 14-FEB-2001  
DEFINITION Sequence 95 from patent US 6096722.  
ACCESSION AR105620  
VERSION AR105620.1 GI:12819217  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)

AUTHORS Bennett,C.Frank., Mirabelli,C.K. and Baker,B.  
TITLE Antisense modulation of cell adhesion molecule expression and  
treatment of cell adhesion molecule-associated diseases  
JOURNAL Patent: US 6096722-A 95 01-AUG-2000;  
FEATURES Location/Qualifiers  
source  
1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 50;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 27 AGGAGCCCTCAAGCGGAG 44  
Db 18 AGGAGCACTCAAGGGGAG 1  
RESULT 57  
AX129119/c  
LOCUS AX129119 19 bp DNA linear PAT 15-MAY-2001  
DEFINITION Sequence 337 from Patent WO0130362.  
ACCESSION AX129119  
VERSION AX129119.1 GI:14135424  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Robbins,J.M. and Tritz,R.  
TITLE Ribozyme therapy for the treatment of proliferative skin and eye  
diseases  
JOURNAL Patent: WO 0130362-A 337 03-MAY-2001;  
IMMUSOL, INC. (US)  
FEATURES Location/Qualifiers  
source  
1..19  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
/note="Cdk3 ribozyme binding site"  
Query Match 1.5%; Score 14.8; DB 1; Length 19;  
Best Local Similarity 88.9%; Pred. No. 58;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 783 GAGTGGCAGATCACACC 800  
Db 19 GAGTGGCAGAACTCACCC 2  
RESULT 58  
AX129120/c  
LOCUS AX129120 19 bp DNA linear PAT 15-MAY-2001  
DEFINITION Sequence 338 from Patent WO0130362.  
ACCESSION AX129120  
VERSION AX129120.1 GI:14135425  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Robbins,J.M. and Tritz,R.  
TITLE Ribozyme therapy for the treatment of proliferative skin and eye  
diseases  
JOURNAL Patent: WO 0130362-A 338 03-MAY-2001;  
IMMUSOL, INC. (US)  
FEATURES Location/Qualifiers  
source  
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/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

/note="Cdk3 ribozyme binding site"  
Query Match 1.5%; Score 14.8; DB 1; Length 19;  
Best Local Similarity 88.9%; Pred. No. 58;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 783 GAGTGGCAGATCACACC 800  
Db 18 GAGTGGCAGAACTCACCC 1  
RESULT 59  
AR164080/c  
LOCUS AR164080 17 bp DNA linear PAT 17-OCT-2001  
DEFINITION Sequence 3 from patent US 6271210.  
ACCESSION AR164080  
VERSION AR164080.1 GI:16235018  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Sivaraman,V.S., Wang,H.-Y. and Malbon,C.C.  
TITLE Antisense oligonucleotides for mitogen-activated protein kinases as  
therapy for cancer  
JOURNAL Patent: US 6271210-A 3 07-AUG-2001;  
FEATURES Location/Qualifiers  
source  
1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 112 TGGCGCGCGCGGCAGC 127  
Db 16 TGGCGCGCGCGGCAGC 1  
RESULT 60  
AR164081/c  
LOCUS AR164081 17 bp DNA linear PAT 17-OCT-2001  
DEFINITION Sequence 4 from patent US 6271210.  
ACCESSION AR164081  
VERSION AR164081.1 GI:16235020  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Sivaraman,V.S., Wang,H.-Y. and Malbon,C.C.  
TITLE Antisense oligonucleotides for mitogen-activated protein kinases as  
therapy for cancer  
JOURNAL Patent: US 6271210-A 4 07-AUG-2001;  
FEATURES Location/Qualifiers  
source  
1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"  
Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 112 TGGCGCGCGCGGCAGC 127  
Db 16 TGGCGCGCGCGGCAGC 1  
RESULT 61  
AX214998/c  
LOCUS AX214998 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 440 from Patent WO0159103.

AUTHORS	Blatt, L., McSwiggen, J. and Chowrira, B.M.
TITLE	Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression
JOURNAL	RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US); McSwiggen, James (US); Chowrira, Bharat M. (US)
FEATURES	Location/Qualifiers
source	1..17 /organism="synthetic construct" /mol_type="unassigned RNA" /db_xref="taxon:32630" /note="Nucleic Acid"
Query Match	1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity	93.8%; Pred. No. 51;
Matches	15; Conservative 0; Mismatches 1; Indels 0; Gaps 0
Qy	115 CGCGGGGCGCAGCTGC 130
Db	1 CGCGGGGCGCAGCTGC 16
RESULT 64	
AX545239/c	
LOCUS	AX545239 17 bp DNA linear PAT 26-NOV-2002
DEFINITION	Sequence 752 from Patent EP1243660.
ACCESSION	AX545239
VERSION	AX545239.1 GI:25810450
KEYWORDS	Homo sapiens (human)
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 Zhang, J., Gu, Y. and Nguyen, C.T. Human udp-galnac:polypeptide n-acetyl galactosaminyltransferase 10 Patent: EP 1243660-A 752 25-SEP-2002; Aeomica, Inc. (US)
AUTHORS	Zhang, J., Gu, Y. and Nguyen, C.T.
TITLE	Human udp-galnac:polypeptide n-acetyl galactosaminyltransferase 10
JOURNAL	Patent: EP 1243660-A 752 25-SEP-2002; Aeomica, Inc. (US)
FEATURES	Location/Qualifiers
source	1..17 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
Query Match	1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity	93.8%; Pred. No. 51;
Matches	15; Conservative 0; Mismatches 1; Indels 0; Gaps 0
Qy	30 AGCCCTCAAGGCGAGC 45
Db	17 AGCCCTCAATGGAGC 2
RESULT 65	
AX545240/c	
LOCUS	AX545240 17 bp DNA linear PAT 26-NOV-2002
DEFINITION	Sequence 753 from Patent EP1243660.
ACCESSION	AX545240
VERSION	AX545240.1 GI:25810451
KEYWORDS	Homo sapiens (human)
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 Zhang, J., Gu, Y. and Nguyen, C.T. Human udp-galnac:polypeptide n-acetyl galactosaminyltransferase 10 Patent: EP 1243660-A 753 25-SEP-2002; Aeomica, Inc. (US)
AUTHORS	Zhang, J., Gu, Y. and Nguyen, C.T.
TITLE	Human udp-galnac:polypeptide n-acetyl galactosaminyltransferase 10
JOURNAL	Patent: EP 1243660-A 753 25-SEP-2002; Aeomica, Inc. (US)
FEATURES	Location/Qualifiers
source	1..17 /organism="Homo sapiens" /mol_type="unassigned DNA"

/db\_xref="taxon:9606"

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 30 AGCCCTCAAGCGGAGC 45  
Db 16 AGCCCTCAATCGGAGC 1

RESULT 66  
AX672270/c  
LOCUS AX672270 17 bp DNA linear PAT 29-MAR-2003  
DEFINITION Sequence 715 from Patent WO03004526.  
ACCESSION AX672270  
VERSION AX672270.1 GI:29330618

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1  
Telerman, A., Amson, R. and Tuijnder, M.

AUTHORS Sequences involved in phenomena of tumour suppression, tumour  
TITLE reversion, apoptosis and/or resistance to viruses and their use as  
medicines

JOURNAL Patent: WO 03004526-A 715 16-JAN-2003;  
Molecular Engines Laboratories (FR)

FEATURES  
source  
1. .17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 463 CACAAGATGGATGATC 478  
Db 16 CAAAAGATGGATGATC 1

RESULT 67  
AX693197  
LOCUS AX693197 17 bp DNA linear PAT 31-MAR-2003  
DEFINITION Sequence 5929 from Patent EP1281758.  
ACCESSION AX693197  
VERSION AX693197.1 GI:29416161

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1  
Shannon, M., Gu, Y. and Nguyen, C.T.

AUTHORS Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and  
TITLE mdz12

JOURNAL Patent: EP 1281758-A 5929 05-FEB-2003;  
Aecomica, Inc. (US)

FEATURES  
source  
1. .17  
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/db\_xref="taxon:9606"

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 639 TCCAGGAGAGGTCAG 654  
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Db 2 TCCAGGAGAGGCCAG 17

RESULT 68  
AX693198  
LOCUS AX693198 17 bp DNA linear PAT 31-MAR-2003  
DEFINITION Sequence 5930 from Patent EP1281758.  
ACCESSION AX693198  
VERSION AX693198.1 GI:29416162

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1  
Shannon, M., Gu, Y. and Nguyen, C.T.

AUTHORS Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and  
TITLE mdz12

JOURNAL Patent: EP 1281758-A 5930 05-FEB-2003;  
Aecomica, Inc. (US)

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/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 639 TCCAGGAGAGGTCAG 654  
Db 1 TCCAGGAGAGGCCAG 16

RESULT 69  
AX727182  
LOCUS AX727182 17 bp DNA linear PAT 08-MAY-2003  
DEFINITION Sequence 4869 from Patent WO03025176.  
ACCESSION AX727182  
VERSION AX727182.1 GI:30506525

KEYWORDS

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE 1  
Telerman, A., Amson, R. and Tuijnder, M.

AUTHORS Sequences involved in phenomena of tumour suppression, tumour  
TITLE reversion, apoptosis and/or virus resistance and their use as  
medicines

JOURNAL Patent: WO 03025176-A 4869 27-MAR-2003;  
Molecular Engines Laboratories (FR)

FEATURES  
source  
1. .17  
/organism="Mus musculus"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:10090"

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 51;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 608 GATCTGAATGAATCA 623  
Db 1 GATCTGAATGAATCA 16

RESULT 70  
AX733886/c  
LOCUS AX733886 17 bp DNA linear PAT 08-MAY-2003  
DEFINITION Sequence 5520 from Patent WO03025175.  
ACCESSION AX733886

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VERSION AX733886.1 GI:30513229
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 5520 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 463 CACAAGATGGATGATC 478
Db 16 CAAAAGATGGATGATC 1
RESULT 71
AX733944/c
LOCUS AX733944 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 5578 from Patent WO03025175.
ACCESSION AX733944
VERSION AX733944.1 GI:30513287
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 5578 27-MAR-2003;
Molecular Engines Laboratories (FR)
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source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 463 CACAAGATGGATGATC 478
Db 16 CAAAAGATGGATGATC 1
RESULT 72
AX734657
LOCUS AX734657 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 247 from Patent WO03025177.
ACCESSION AX734657
VERSION AX734657.1 GI:30513934
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03040369-A 3993 15-MAY-2003;
Molecular Engines Laboratories (FR)
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source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 463 CACAAGATGGATGATC 478
Db 16 CAAAAGATGGATGATC 1
RESULT 73
AX738881/c
LOCUS AX738881 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 4471 from Patent WO03025177.
ACCESSION AX738881
VERSION AX738881.1 GI:30518171
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 4471 27-MAR-2003;
Molecular Engines Laboratories (FR)
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source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 608 GATCTGAATGAATCA 623
Db 1 GATCTGAATGAATGA 16
RESULT 74
AX760672/c
LOCUS AX760672 17 bp DNA linear PAT 25-JUN-2003
DEFINITION Sequence 3993 from Patent WO03040369.
ACCESSION AX760672
VERSION AX760672.1 GI:32255288
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in tumoral suppression, tumoral reversion,
apoptosis and/or viral resistance phenomena and their use as
medicines
JOURNAL Patent: WO 03040369-A 3993 15-MAY-2003;
Molecular Engines Laboratories (FR)
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1. .17
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 914 CTAACCTCTTCTCTGAT 929
Db 17 CTAACCTTCTCTGAT 2
RESULT 75
AX760672/c
LOCUS AX760672 17 bp DNA linear PAT 25-JUN-2003
DEFINITION Sequence 3993 from Patent WO03040369.
ACCESSION AX760672
VERSION AX760672.1 GI:32255288
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in tumoral suppression, tumoral reversion,
apoptosis and/or viral resistance phenomena and their use as
medicines
JOURNAL Patent: WO 03040369-A 3993 15-MAY-2003;
Molecular Engines Laboratories (FR)
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1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 914 CTAACCTCTTCTCTGAT 929
Db 17 CTAACCTTCTCTGAT 2
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source          1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 463 CACAAGATGGATGATC 478
Db 16 CAAAAGATGGATGATC 1

RESULT 75
AX761200/c
LOCUS          AX761200          17 bp      DNA      linear      PAT 25-JUN-2003
DEFINITION     Sequence 4521 from Patent WO03040369.
ACCESSION      AX761200
VERSION        AX761200.1 GI:32255816
KEYWORDS
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
REFERENCE      1
AUTHORS        Telerman, A., Amson, R. and Tuijinder, M.
TITLE          Sequences involved in tumoral suppression, tumoral reversion,
               apoptosis and/or viral resistance phenomena and their use as
               medicines
JOURNAL        Patent: WO 03040369-A 4521 15-MAY-2003;
               Molecular Engines Laboratories (PR)
FEATURES       Location/Qualifiers
source          1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 463 CACAAGATGGATGATC 478
Db 16 CAAAAGATGGATGATC 1

RESULT 76
AX761200/c
LOCUS          AX761200          17 bp      RNA      linear      PAT 27-AUG-2002
DEFINITION     Antisense oligonucleotides for mitogen-activated protein kinases as
               therapy for breast cancer.
ACCESSION      BD058091
VERSION        BD058091.1 GI:22603697
KEYWORDS       JP 2001518881-A/3.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
REFERENCE      1
AUTHORS        Sivaraman, V.S., Wang, H.Y. and Malbon, C.C.
TITLE          Antisense oligonucleotides for mitogen-activated protein kinases as
               therapy for breast cancer
JOURNAL        Patent: JP 2001518881-A 3 16-OCT-2001;
               THE RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK
COMMENT        OS Homo sapiens (human)
               PN JP 2001518881-A/3
               PF 19-MAR-1998 JP 1998541700
               PI VIMALA S SIVARAMAN, HSIEH YU WANG, CRAIG C MALBON PC
               CL2N15/11,A61K31/70,C12Q1/68//A61K48/00
               CC The molecular type is mRNA which is antisense. PH Key
               Location/Qualifiers
source          1. .17
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 463 CACAAGATGGATGATC 478
Db 16 CAAAAGATGGATGATC 1

RESULT 77
BD058092/c
LOCUS          BD058092          17 bp      DNA      linear      PAT 27-AUG-2002
DEFINITION     Antisense oligonucleotides for mitogen-activated protein kinases as
               therapy for breast cancer.
ACCESSION      BD058092
VERSION        BD058092.1 GI:22603698
KEYWORDS       JP 2001518881-A/4.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
REFERENCE      1
AUTHORS        Sivaraman, V.S., Wang, H.Y. and Malbon, C.C.
TITLE          Antisense oligonucleotides for mitogen-activated protein kinases as
               therapy for breast cancer
JOURNAL        Patent: JP 2001518881-A 4 16-OCT-2001;
               THE RESEARCH FOUNDATION OF STATE UNIV OF NEW YORK
COMMENT        OS Homo sapiens (human)
               PN JP 2001518881-A/4
               PF 16-OCT-2001
               PI VIMALA S SIVARAMAN, HSIEH YU WANG, CRAIG C MALBON PC
               CL2N15/11,A61K31/70,C12Q1/68//A61K48/00
               CC The molecular type is cDNA which is antisense. PH Key
               Location/Qualifiers
source          1. .17
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 112 TGGCGCGCGCGGCAGC 127
Db 16 TGGCGCGCGCGGCAGC 1

RESULT 78
A67601
LOCUS          A67601          18 bp      DNA      linear      PAT 05-MAY-1999
DEFINITION     Sequence 21 from Patent WO9744485.
ACCESSION      A67601
VERSION        A67601.1 GI:4756464
KEYWORDS
SOURCE         unidentified
ORGANISM       unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS        Goodfellow, P.N.
TITLE          METHODS FOR IDENTIFYING A MUTATION IN A GENE OF INTEREST
JOURNAL        Patent: WO 9744485-A 21 27-NOV-1997;
               HEXAGEN TECHNOLOGY LIMITED (GB)
FEATURES       Location/Qualifiers
source          1. .18

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/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match
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Best Local Similarity 93.8%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 18 CGCGCGCGGAGGCC 33
Db 1 CGCGCGCGGAGGCC 16

RESULT 79
AR089739
LOCUS AR089739 18 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 21 from patent US 5994075.
ACCESSION AR089739
VERSION AR089739.1 GI:10016494
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Goodfellow,P.N.
TITLE Methods for identifying a mutation in a gene of interest without a
phenotypic guide
JOURNAL Patent: US 5994075-A 21 30-NOV-1999;
FEATURES Location/Qualifiers
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    /mol_type="unassigned DNA"

Query Match
  1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 18 CGCGCGCGGAGGCC 33
Db 1 CGCGCGCGGAGGCC 16

RESULT 80
AR098790
LOCUS AR098790 18 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 45 from patent US 6077672.
ACCESSION AR098790
VERSION AR098790.1 GI:12808556
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Monia,B.P. and Cowsett,L.M.
TITLE Antisense modulation of TRADD expression
JOURNAL Patent: US 6077672-A 45 20-JUN-2000;
FEATURES Location/Qualifiers
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    1..18
    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
  1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 112 TGGCGCGCGCGGCGC 127
Db 3 TGGCGCGCGCGGCGC 18

RESULT 81
AR292475/c
LOCUS AR292475 18 bp DNA linear PAT 12-JUN-2003
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DEFINITION Sequence 4210 from patent US 6537751.
ACCESSION AR292475
VERSION AR292475.1 GI:31679759
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE Biallelic markers for use in constructing a high density
disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 4210 25-MAR-2003;
FEATURES Location/Qualifiers
  source
    1..18
    /organism="unknown"
    /mol_type="genomic DNA"

Query Match
  1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 549 GGAAGGAGGAATAGG 564
Db 17 GGAAGGAGGAATATG 2

RESULT 82
AR392128
LOCUS AR392128 18 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 43 from patent US 6613567.
ACCESSION AR392128
VERSION AR392128.1 GI:40116018
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Bennett,C.F. and Cowsett,L.M.
TITLE Antisense inhibition of Her-2 expression
JOURNAL Patent: US 6613567-A 43 02-SEP-2003;
FEATURES Location/Qualifiers
  source
    1..18
    /organism="unknown"
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Query Match
  1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 775 CCTTTCAGAGTGCCA 790
Db 1 CCTTTCAGAGTGCCA 16

RESULT 83
AR041067
LOCUS AR041067 17 bp DNA linear PAT 23-NOV-2000
DEFINITION Sequence 10 from Patent WO065098.
ACCESSION AR041067
VERSION AR041067.1 GI:11340637
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Dubiley,S., Kirillov,E. and Mirzabekov,A.
TITLE Nucleotide extension on a microarray of gel-immobilized primers
JOURNAL Patent: WO 0065098-A 10 02-NOV-2000;
The University of Chicago (US)
FEATURES Location/Qualifiers
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    1..17
    /organism="synthetic construct"
    /mol_type="unassigned DNA"
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/db\_xref="taxon:32630"  
/note="Primer-'n' represents a, t, c or g"

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 59;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 770 CAGTGCCTTTTCAG 783  
Db 3 CAGTGCCTTTTCAG 16

RESULT 84  
AX578428  
LOCUS AX578428 17 bp RNA linear PAT 10-JAN-2003  
DEFINITION Sequence 266 from Patent WO0211674.  
ACCESSION AX578428  
VERSION AX578428.1 GI:27647630  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
AUTHORS Thompson, J., Mcswiggen, J., McKenzie, T., Ayers, D., Szymkowski, D.E.  
TITLE Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)  
JOURNAL Patent: WO 0211674-A 266 14-FEB-2002;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)  
FEATURES  
source  
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/organism="Homo sapiens"  
/mol\_type="unassigned RNA"  
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Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 59;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 604 GATGATCTGAAT 617  
Db 2 GATGATCTGAAT 15

RESULT 85  
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LOCUS AX579016 17 bp RNA linear PAT 10-JAN-2003  
DEFINITION Sequence 854 from Patent WO0211674.  
ACCESSION AX579016  
VERSION AX579016.1 GI:27648218  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
AUTHORS Thompson, J., Mcswiggen, J., McKenzie, T., Ayers, D., Szymkowski, D.E.  
TITLE Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)  
JOURNAL Patent: WO 0211674-A 854 14-FEB-2002;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)  
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QY 604 GATGATCTGAAT 617  
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RESULT 86  
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LOCUS AX579350 17 bp RNA linear PAT 10-JAN-2003  
DEFINITION Sequence 1188 from Patent WO0211674.  
ACCESSION AX579350  
VERSION AX579350.1 GI:27648552  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
AUTHORS Thompson, J., Mcswiggen, J., McKenzie, T., Ayers, D., Szymkowski, D.E.  
TITLE Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)  
JOURNAL Patent: WO 0211674-A 1188 14-FEB-2002;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)  
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Db 4 AGAAGTCAGCTGT 17

RESULT 87  
AX579351  
LOCUS AX579351 17 bp RNA linear PAT 10-JAN-2003  
DEFINITION Sequence 1189 from Patent WO0211674.  
ACCESSION AX579351  
VERSION AX579351.1 GI:27648553  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
AUTHORS Thompson, J., Mcswiggen, J., McKenzie, T., Ayers, D., Szymkowski, D.E.  
TITLE Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)  
JOURNAL Patent: WO 0211674-A 1189 14-FEB-2002;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)  
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RESULT 88
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LOCUS AX579523 17 bp RNA linear PAT 10-JAN-2003
DEFINITION Sequence 1361 from Patent WO0211674.
ACCESSION AX579523
VERSION AX579523.1 GI:27648725
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
1 Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E.
and Grupe,A.
TITLE Method and reagent for the inhibition of calcium activated chloride
channel-1 (clca-1)
JOURNAL Patent: WO 0211674-A 1361 14-FEB-2002;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ;
Thompson, James (US)
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Db 3 AGAAGTCGAGCTGT 16

RESULT 89
AX579896
LOCUS AX579896 17 bp RNA linear PAT 10-JAN-2003
DEFINITION Sequence 1734 from Patent WO0211674.
ACCESSION AX579896
VERSION AX579896.1 GI:27649098
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
1 Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E.
and Grupe,A.
TITLE Method and reagent for the inhibition of calcium activated chloride
channel-1 (clca-1)
JOURNAL Patent: WO 0211674-A 1734 14-FEB-2002;
RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ;
Thompson, James (US)
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QY 604 GATGATCTGAAT 617
Db 4 GATGATCTGAAT 17

RESULT 90
AR181637/c
LOCUS AR181637 18 bp DNA linear PAT 20-APR-2002
DEFINITION A method of arraying genome clone.
ACCESSION BD088360
VERSION BD088360.1 GI:22633970
KEYWORDS JP 2001321190-A/604.
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE Soeda,E.
AUTHORS A method of arraying genome clone
TITLE Patent: JP 2001321190-A 604 20-NOV-2001;
JOURNAL THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
GENOTECHS
COMMENT OS Artificial Sequence

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DEFINITION Sequence 99 from patent US 6335194.
ACCESSION AR181637
VERSION AR181637.1 GI:20223851
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Bennett,C.Frank., Ackermann,E.J., Swayze,E.E. and Cowsett,L.M.
TITLE Antisense modulation of survivin expression
JOURNAL Patent: US 6335194-A 99 01-JAN-2002;
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Db 16 TGGCGGCGGCGCA 3

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LOCUS AX041066 18 bp DNA linear PAT 23-NOV-2000
DEFINITION Sequence 9 from Patent WO0065098.
ACCESSION AX041066
VERSION AX041066.1 GI:11340636
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Dubiley,S., Kirillov,B. and Mirzabekov,A.
TITLE Nucleotide extension on a microarray of gel-immobilized primers
JOURNAL Patent: WO 0065098-A 9 02-NOV-2000;
The University of Chicago (US)
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Location/Qualifiers
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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 4 CAGTGCCTTTTCAG 17

RESULT 92
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LOCUS BD088360 18 bp DNA linear PAT 27-AUG-2002
DEFINITION A method of arraying genome clone.
ACCESSION BD088360
VERSION BD088360.1 GI:22633970
KEYWORDS JP 2001321190-A/604.
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE Soeda,E.
AUTHORS A method of arraying genome clone
TITLE Patent: JP 2001321190-A 604 20-NOV-2001;
JOURNAL THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
GENOTECHS
COMMENT OS Artificial Sequence

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PN JP 2001321190-A/604
PD 20-NOV-2001
PF 12-MAR-2001 JP 2001068285
PI EIICHI SOEDA
PC C12N15/09,C12N15/09,C12M1/00,C12Q1/68,G01N33/53,G01N33/566, PC
C12N15/00,
PC C12N15/00
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Best Local Similarity 100.0%; Pred.No. 68;
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Db 15 GCAGCTGTGCACAT 2
RESULT 93
AB067907/c
LOCUS
DEFINITION
AB067907 Synthetic construct DNA, reverse primer for human STS sts-stSG26879
at lp36.
ACCESSION
AB067907
VERSION
AB067907.1 GI:15128711
KEYWORDS
synthetic construct
synthetic construct
artificial sequences.
ORGANISM
synthetic construct
REFERENCE
1 Chen,Y.Z., Hayaashi,Y., Wu,J.G., Takaoka,E., Maekawa,K.,
Watanabe,N., Inazawa,J., Hosoda,F., Arai,Y., Mizushima,H.,
Morohashi,A., Ohira,M., Nakagawara,A., Liu,S., Hoshi,M., Horii,A.
and Soeda,E.
A BAC-based STS-content map spanning a 35-Mb region of human
chromosome lp35-p36
Genomics 74 (1), 55-70 (2001)
21269192
PUBMED
11374902
REFERENCE
2 (bases 1 to 18)
Hori,A.
Direct Submission
Submitted (04-AUG-2001) Akira Hori, Tohoku University School of
Medicine, Molecular Pathology, 2-1 Seiryomachi, Aoba-ku, Sendai,
Miyagi 980-8575, Japan (E-mail:hori@mail.cc.tohoku.ac.jp,
Tel:81-22-717-8042, Fax:81-22-717-8047)
Location/Qualifiers
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dJ89003, Human BAC library RPCI-11"
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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 15 GCAGCTGTGCACAT 2

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RESULT 94
BD254815/c
LOCUS
DEFINITION
BD254815 Regulation of repressor genes using nucleic acid molecules.
ACCESSION
BD254815
VERSION
BD254815.1 GI:33064585
KEYWORDS
JP 2002541795-A/2608.
SOURCE
unidentified
ORGANISM
unidentified.
REFERENCE
1 (bases 1 to 17)
Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
Regulation of repressor genes using nucleic acid molecules
TITLE
Regulation of repressor genes using nucleic acid molecules
JOURNAL
RIBOZYME PHARMACEUTICALS INC
Patent: JP 2002541795-A/2608.
COMMENT
OS Eukaryote
PN JP 2002541795-A/2608
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
C12N15/09, A61K38/00, A61P43/00, A61P43/00, C12N5/10, PC
C12P21/02,
PC
C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
C12R1:91),
PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
PC A61K37/02,
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DEFINITION
BD259457 Regulation of repressor genes using nucleic acid molecules.
ACCESSION
BD259457
VERSION
BD259457.1 GI:33069227
KEYWORDS
JP 2002541795-A/7250.
SOURCE
unidentified
ORGANISM
unidentified.
REFERENCE
1 (bases 1 to 17)
Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
Regulation of repressor genes using nucleic acid molecules
TITLE
Regulation of repressor genes using nucleic acid molecules
JOURNAL
RIBOZYME PHARMACEUTICALS INC
Patent: JP 2002541795-A 7250 10-DEC-2002;
COMMENT
OS Eukaryote
PN JP 2002541795-A/7250
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
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BD259457
VERSION
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REFERENCE
1 (bases 1 to 17)
Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
Regulation of repressor genes using nucleic acid molecules
TITLE
Regulation of repressor genes using nucleic acid molecules
JOURNAL
RIBOZYME PHARMACEUTICALS INC
Patent: JP 2002541795-A 7250 10-DEC-2002;
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Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
Regulation of repressor genes using nucleic acid molecules
TITLE
Regulation of repressor genes using nucleic acid molecules
JOURNAL
RIBOZYME PHARMACEUTICALS INC
Patent: JP 2002541795-A 7250 10-DEC-2002;
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PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
C12N15/09, A61K38/00, A61P43/00, A61P43/00, C12N5/10, PC
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PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,
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Db 1 GAGCTGTCCAGCAGCC 17  
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LOCUS AR188820 17 bp DNA linear PAT 20-APR-2002  
DEFINITION Sequence 4308 from patent US 6346398.  
ACCESSION AR188820  
VERSION AR188820.1 GI:20234795  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco,P., McSwiggen,J., Stinchcomb,D. and Escobedo,J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6346398-A 4308 12-FEB-2002;  
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Db 1 TTTCCTGTATGGAGGAG 17  
RESULT 97  
AR196336  
LOCUS AR196336 17 bp DNA linear PAT 20-APR-2002  
DEFINITION Sequence 801 from patent US 6350934.  
ACCESSION AR196336  
VERSION AR196336.1 GI:20245773  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Zwick,M.G., Edington,B.E., McSwiggen,J.A., Merlo,P. Ann Owens., Guo,L., Skokut,T.A., Young,S.A., Folkerts,O. and Merlo,D.J.  
TITLE Nucleic acid encoding delta-9 desaturase  
JOURNAL Patent: US 6350934-A 801 26-FEB-2002;  
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Db 1 CCTCGAGTTCTCGTCG 17  
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AR286193/c  
LOCUS AR286193 17 bp RNA linear PAT 10-APR-2003  
DEFINITION Sequence 565 from patent US 6528640.  
ACCESSION AR286193  
VERSION AR286193.1 GI:29723789  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Beigelman,L., Burgin,A., Beaudry,A., Karpeisky,A., Matulic-Adamic,J., Sweedler,D. and Zinnen,S.  
TITLE Synthetic ribonucleic acids with RNase activity  
JOURNAL Patent: US 6528640-A 565 04-MAR-2003;  
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Db 17 GCGCGGGCTGCGCGGG 1  
RESULT 99  
AR286209  
LOCUS AR286209 17 bp RNA linear PAT 10-APR-2003  
DEFINITION Sequence 581 from patent US 6528640.  
ACCESSION AR286209  
VERSION AR286209.1 GI:29723805  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Beigelman,L., Burgin,A., Beaudry,A., Karpeisky,A., Matulic-Adamic,J., Sweedler,D. and Zinnen,S.  
TITLE Synthetic ribonucleic acids with RNase activity  
JOURNAL Patent: US 6528640-A 581 04-MAR-2003;  
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Qy 281 CCCACGGAGCCGCGAGC 297  
Db 1 CCCCGGAGCGCGAGC 17  
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AR324673  
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DEFINITION Sequence 2075 from patent US 6566127.  
ACCESSION AR324673  
VERSION AR324673.1 GI:33710481  
KEYWORDS

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SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 17)
AUTHORS     Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.
TITLE       Method and reagent for the treatment of diseases or conditions
            related to levels of vascular endothelial growth factor receptor
JOURNAL     Patent: US 6566127-A 2075 20-MAY-2003;
FEATURES    Location/Qualifiers
            source
            1..17
            /organism="unknown"
            /mol_type="unassigned RNA"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  921 TTTCCTGATTCGAGGAG 937
Db  1 TTTCCTGATTCGAGGAG 17

RESULT 101
LOCUS      AR398183      17 bp      RNA      linear      PAT 18-DEC-2003
DEFINITION Sequence 564 from patent US 6617438.
ACCESSION  AR398183
VERSION     AR398183.1 GI:40135789
KEYWORDS   .
SOURCE     .
ORGANISM   .
REFERENCE  1
AUTHORS     Beigelman, L., Burgin, A.B., Beaudry, A., Karpeisky, A.,
            Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE       Oligoribonucleotides with enzymatic activity
JOURNAL     Patent: US 6617438-A 564 09-SEP-2003;
FEATURES    Location/Qualifiers
            1..17
            /organism="unknown"
            /mol_type="unassigned RNA"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  51 GCGCGCGCTGCGCGG 67
Db  17 GCGCGCGCTGCGCGG 1

RESULT 102
LOCUS      AR398199      17 bp      RNA      linear      PAT 18-DEC-2003
DEFINITION Sequence 580 from patent US 6617438.
ACCESSION  AR398199
VERSION     AR398199.1 GI:40135818
KEYWORDS   .
SOURCE     .
ORGANISM   .
REFERENCE  1
AUTHORS     Beigelman, L., Burgin, A.B., Beaudry, A., Karpeisky, A.,
            Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE       Oligoribonucleotides with enzymatic activity
JOURNAL     Patent: US 6617438-A 580 09-SEP-2003;
FEATURES    Location/Qualifiers
            1..17
            /organism="unknown"
            /mol_type="unassigned RNA"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;

SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 17)
AUTHORS     Beigelman, L., Burgin, A.B., Beaudry, A., Karpeisky, A.,
            Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE       Oligoribonucleotides with enzymatic activity
JOURNAL     Patent: US 6617438-A 580 09-SEP-2003;
FEATURES    Location/Qualifiers
            1..17
            /organism="unknown"
            /mol_type="unassigned RNA"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;

SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 17)
AUTHORS     Beigelman, L., Burgin, A.B., Beaudry, A., Karpeisky, A.,
            Matulic-Adamic, J., Sweedler, D. and Zinnen, S.
TITLE       Oligoribonucleotides with enzymatic activity
JOURNAL     Patent: US 6617438-A 564 09-SEP-2003;
FEATURES    Location/Qualifiers
            1..17
            /organism="unknown"
            /mol_type="unassigned RNA"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  51 GCGCGCGCTGCGCGG 67
Db  17 GCGCGCGCTGCGCGG 1

RESULT 103
LOCUS      AX215373      17 bp      RNA      linear      PAT 07-SEP-2001
DEFINITION Sequence 815 from Patent WO0159103.
ACCESSION  AX215373
VERSION     AX215373.1 GI:15525416
KEYWORDS   .
SOURCE     .
ORGANISM   .
REFERENCE  1
AUTHORS     Blatt, L., McSwiggen, J. and Chowrira, B.M.
TITLE       Method and reagent for the modulation and diagnosis of cd20 and
            nogo gene expression
JOURNAL     Patent: WO 0159103-A 815 16-AUG-2001;
            RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);
            McSwiggen, James (US); Chowrira, Bharat M. (US)
FEATURES    Location/Qualifiers
            1..17
            /organism="synthetic construct"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32630"
            /note="Nucleic Acid"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  388 CCGCGCGCGCGCGGCTGC 404
Db  1 CCGCGCGCGCGCGGCTGC 17

RESULT 104
LOCUS      AX474943      17 bp      DNA      linear      PAT 12-AUG-2002
DEFINITION Sequence 164 from Patent WO0224750.
ACCESSION  AX474943
VERSION     AX474943.1 GI:22214228
KEYWORDS   .
SOURCE     .
ORGANISM   .
REFERENCE  1
AUTHORS     Zhang, J.
TITLE       Human kidney tumor overexpressed membrane protein 1
JOURNAL     Patent: WO 0224750-A 164 28-MAR-2002;
            Aeomica, Inc. (US)
FEATURES    Location/Qualifiers
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  63 CGCGGAGTCTGCTGCGG 79
Db  1 CGCGGAGTCTGCTGCGG 17

RESULT 105
LOCUS      AX474944
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LOCUS AX474944 17 bp DNA linear PAT 12-AUG-2002  
DEFINITION Sequence 165 from Patent WO0224750.  
ACCESSION AX474944  
VERSION AX474944.1 GI:22214229  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Zhang, J.  
TITLE Human kidney tumor overexpressed membrane protein 1  
JOURNAL Patent: WO 0224750-A 165 28-MAR-2002;  
Acomica, Inc. (US)  
FEATURES  
source  
1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 1..4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 64;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 64 GCGGACTGCTGCGGGA 80  
||||| ||||| |||||  
Db 1 GCGGGTTGCTGCGGGA 17  
RESULT 106  
AX474945  
LOCUS AX474945 17 bp DNA linear PAT 12-AUG-2002  
DEFINITION Sequence 166 from Patent WO0224750.  
ACCESSION AX474945  
VERSION AX474945.1 GI:22214230  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Zhang, J.  
TITLE Human kidney tumor overexpressed membrane protein 1  
JOURNAL Patent: WO 0224750-A 166 28-MAR-2002;  
Acomica, Inc. (US)  
FEATURES  
source  
1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 1..4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 64;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 65 GCGGACTGCTGCGGAG 81  
||||| ||||| |||||  
Db 1 GCGGGTTGCTGCGGAG 17  
RESULT 107  
AX531299/c  
LOCUS AX531299 17 bp DNA linear PAT 22-NOV-2002  
DEFINITION Sequence 808 from Patent EP1239051.  
ACCESSION AX531299  
VERSION AX531299.1 GI:25254384  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Shannon, M.

TITLE Human posh-like protein 1  
JOURNAL Patent: EP 1239051-A 808 11-SEP-2002;  
Acomica, Inc. (US)  
FEATURES  
source  
1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 1..4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 64;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 114 GCGGCGGCGGCGAGCTGC 130  
||||| ||||| |||||  
Db 17 GCGGCTGGGCGAGCTGC 1  
RESULT 108  
AX531300/c  
LOCUS AX531300 17 bp DNA linear PAT 22-NOV-2002  
DEFINITION Sequence 809 from Patent EP1239051.  
ACCESSION AX531300  
VERSION AX531300.1 GI:25254386  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Shannon, M.  
TITLE Human posh-like protein 1  
JOURNAL Patent: EP 1239051-A 809 11-SEP-2002;  
Acomica, Inc. (US)  
FEATURES  
source  
1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 1..4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 64;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 113 GCGGCGGCGGCGAGCTG 129  
||||| ||||| |||||  
Db 17 GCGGCTGGGCGAGCTG 1  
RESULT 109  
AX674185  
LOCUS AX674185 17 bp DNA linear PAT 27-MAR-2003  
DEFINITION Sequence 2630 from Patent WO03004526.  
ACCESSION AX674185  
VERSION AX674185.1 GI:29332533  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Telerman, A., Anson, R. and Tuijinder, M.  
TITLE Sequences involved in phenomena of tumour suppression, tumour  
reversion, apoptosis and/or resistance to viruses and their use as  
medicines  
JOURNAL Patent: WO 03004526-A 2630 16-JAN-2003;  
Molecular Engines Laboratories (FR)  
FEATURES  
source  
1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

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Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      608 GATCTGAAATCAATCAC 624
Db      1 GATCTGAAATCAATAAC 17

RESULT 110
AX759410
LOCUS      AX759410      17 bp      DNA      linear      PAT 25-JUN-2003
DEFINITION Sequence 2731 from Patent WO03040369.
ACCESSION  AX759410
VERSION     AX759410.1 GI:32254026
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Telerman,A., Amson,R. and Tuijnder,W.
TITLE      Sequences involved in tumoral suppression, tumoral reversion,
            apoptosis and/or viral resistance phenomena and their use as
            medicines
JOURNAL    Patent: WO 03040369-A 2731 15-MAY-2003;
            Molecular Engines Laboratories (FR)
FEATURES
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      608 GATCTGAAATCAATCAC 624
Db      1 GATCTGCATGATTTCAC 17

RESULT 111
AX781951
LOCUS      AX781951      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Sequence 282 from Patent WO03050284.
ACCESSION  AX781951
VERSION     AX781951.1 GI:32949800
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Guo,J.
TITLE      Human prostate cancer candidate protein 1
JOURNAL    Patent: WO 03050284-A 282 19-JUN-2003;
            Amersham Biosciences (SV) Corp. (US)
FEATURES
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      452 TCAAGGCTTGACCAAG 468
Db      1 TCATGGGTTGCACATG 17

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RESULT 112
AX783270
LOCUS      AX783270      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Sequence 1601 from Patent WO03050284.
ACCESSION  AX783270
VERSION     AX783270.1 GI:32951119
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Guo,J.
TITLE      Human prostate cancer candidate protein 1
JOURNAL    Patent: WO 03050284-A 1601 19-JUN-2003;
            Amersham Biosciences (SV) Corp. (US)
FEATURES
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      401 CGTCTCTCGACGCGCC 417
Db      1 CGTGTCTCGACGCGCC 17

RESULT 113
AX783521/c
LOCUS      AX783521      17 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Sequence 1852 from Patent WO03050284.
ACCESSION  AX783521
VERSION     AX783521.1 GI:32951370
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS    Guo,J.
TITLE      Human prostate cancer candidate protein 1
JOURNAL    Patent: WO 03050284-A 1852 19-JUN-2003;
            Amersham Biosciences (SV) Corp. (US)
FEATURES
            source
            1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 64;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      286 GGAGCCGCGCAGCGCGC 302
Db      17 GGAGCAGCCAGCAGCGC 1

RESULT 114
ATH524392/c
LOCUS      ATH524392      17 bp      DNA      linear      PLN 29-MAR-2003
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
            074D03.
ACCESSION  AJ524392
VERSION     AJ524392.1 GI:26792628
KEYWORDS    left border; T-DNA flanking sequence.
            Arabidopsis thaliana (thale cress)
SOURCE      Arabidopsis thaliana
ORGANISM    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsia.

1  
 Brunaud, V., Balzerque, S., Dubreucq, B., Aubourg, S., Samson, P., Chauvin, S., Bechtold, N., Cruaud, C., DeRose, R., Pelletier, G., Lepiniec, L., Caboche, M., and Lecharny, A.  
 T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)

JOURNAL  
 MEDLINE  
 22363535  
 PUBMED  
 1246565  
 2 (bases 1 to 17)  
 Balzerque, S.  
 Direct Submission  
 Submitted (21-NOV-2002) Balzerque S., UMRGV, INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE

COMMENT  
 PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at <http://dbsgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infobiogen.fr>).

FEATURES  
 source  
 1..17  
 /organism="Arabidopsis thaliana"  
 /mol\_type="genomic DNA"  
 /cultiivar="Wassillewskija"  
 /db\_xref="taxon:3702"  
 /clone="074D03"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 misc\_feature  
 1..17  
 /notes="T-DNA flanking sequence left border"

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 64;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 411 AGCGGCCCCCGCGGTC 427  
 Db 17 AGCGGCCCCCGCGGTC 1

RESULT 115  
 A67594  
 LOCUS  
 DEFINITION Sequence 14 from Patent WO9744485.  
 ACCESSION A67594  
 VERSION A67594.1 GI:4756457  
 KEYWORDS  
 SOURCE unidentified  
 ORGANISM unidentified  
 unclassified.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Goodfellow, P.N.  
 TITLE METHODS FOR IDENTIFYING A MUTATION IN A GENE OF INTEREST  
 JOURNAL  
 HEXAGEN TECHNOLOGY LIMITED (GB)

FEATURES  
 source  
 1..18  
 /organism="unidentified"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:32644"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

REFERENCE 1 (bases 1 to 18)

Qy 114 GCAGCGCGCGGCGGCGGTC 130  
 Db 1 GCAGCGCGCGGCGGCGGTC 17

RESULT 116  
 AR039657/c  
 LOCUS  
 DEFINITION Sequence 505 from patent US 5807743.  
 ACCESSION AR039657  
 VERSION AR039657.1 GI:5959020  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 UNCLASSIFIED.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Stinchcomb, D.T., and McSwiggen, J.A.  
 TITLE Interleukin-2 receptor gamma-chain ribozymes  
 JOURNAL Patent: US 5807743-A 505 15-SEP-1998;  
 FEATURES Location/Qualifiers  
 source  
 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 967 ATTGGGCGCTCAGAACTG 983  
 Db 17 ATTGGGCGCTCAGAACTG 1

RESULT 117  
 AR059531  
 LOCUS  
 DEFINITION Sequence 21 from patent US 5840491.  
 ACCESSION AR059531  
 VERSION AR059531.1 GI:5985981  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 UNCLASSIFIED.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Kakizuka, A.  
 TITLE DNA sequence encoding the Machado-Joseph disease gene and uses thereof  
 JOURNAL Patent: US 5840491-A 21 24-NOV-1998;  
 FEATURES Location/Qualifiers  
 source  
 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 916 AACTCTTTCTCTGATTGG 932  
 Db 1 AACTCTCTCTGATTGG 17

RESULT 118  
 AR089732  
 LOCUS  
 DEFINITION Sequence 14 from patent US 5994075.  
 ACCESSION AR089732  
 VERSION AR089732.1 GI:10016487  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 UNCLASSIFIED.  
 REFERENCE 1 (bases 1 to 18)

Mon Jun 28 08:23:01 2004

AUTHORS Goodfellow, P.N.  
 TITLE Methods for identifying a mutation in a gene of interest without a phenotypic guide  
 JOURNAL Patent: US 5994075-A 14 30-NOV-1999;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGGGGGGGGGGGGG 130  
 Db 1 GCGGGGGGGGGGGGGC 17

RESULT 119  
 AR092795 LOCUS 18 bp DNA linear PAT 08-SEP-2000  
 DEFINITION Sequence 10 from patent US 5998206.  
 ACCESSION AR092795  
 VERSION AR092795.1 GI:10019547  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Cowse, L.M.  
 TITLE Antisense inhibitor of human G-alpha-12 expression  
 JOURNAL Patent: US 5998206-A 10 07-DEC-1999;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 13 GCGGGGGGGGGGGGGG 29  
 Db 2 GCGGGGGGGGGGGGGG 18

RESULT 120  
 AR098789 LOCUS 18 bp DNA linear PAT 14-FEB-2001  
 DEFINITION Sequence 44 from patent US 6077672.  
 ACCESSION AR098789  
 VERSION AR098789.1 GI:12808555  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Monia, B.P. and Cowse, L.M.  
 TITLE Antisense modulation of TRADD expression  
 JOURNAL Patent: US 6077672-A 44 20-JUN-2000;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGGGGGGGGGGGGG 130  
 Db 1 GCGGGGGGGGGGGGGC 17

RESULT 121  
 AR098791 LOCUS 18 bp DNA linear PAT 14-FEB-2001  
 DEFINITION Sequence 46 from patent US 6077672.  
 ACCESSION AR098791  
 VERSION AR098791.1 GI:12808557  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Monia, B.P. and Cowse, L.M.  
 TITLE Antisense modulation of TRADD expression  
 JOURNAL Patent: US 6077672-A 46 20-JUN-2000;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 12 GCGGGGGGGGGGGGGG 28  
 Db 2 GCGGGGGGGGGGGGGG 18

RESULT 122  
 AR123678 LOCUS 18 bp DNA linear PAT 16-MAY-2001  
 DEFINITION Sequence 16 from patent US 6171788.  
 ACCESSION AR123678  
 VERSION AR123678.1 GI:14109039  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Nguyen, T.D., Polansky, J.R., Chen, P. and Chen, H.  
 TITLE Methods for the diagnosis, prognosis and treatment of glaucoma and related disorders  
 JOURNAL Patent: US 6171788-A 16 09-JAN-2001;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 831 CTCACCATATAGCCCTG 847  
 Db 18 CCCACATATAGCCCTG 2

RESULT 123  
 BD237949 LOCUS 18 bp DNA linear PAT 17-JUL-2003  
 DEFINITION Nucleic acids, kits, and methods for the diagnosis, prognosis and treatment of glaucoma and related disorders.  
 ACCESSION BD237949  
 VERSION BD237949.1 GI:33047719  
 KEYWORDS JP 2002534135-A/16.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Nguyen, T.D., Polansky, J.R., Chen, P. and Chen, H.  
 TITLE Nucleic acids, kits, and methods for the diagnosis, prognosis and



```

treatment of glaucoma and related disorders
Patent: JP 2002534135-A 16 15-OCT-2002;
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
OS Homo sapiens (human)
PN JP 2002534135-A/16
PD 15-OCT-2002
PF 11-JAN-2000 JP 2000593777
PR 11-JAN-1999 US 09/227881,07-MAY-1999 US 09/306828 PI
THAI D NGUYEN, JON R POLANSKY, PU CHEN, HUA CHEN PC
C12N15/09, A61K31/573, A61K45/00, A61P27/06, C12N1/15, C12N1/19, PC
C12N1/21.
CC C12N5/10, C12Q1/68, G01N33/53, G01N33/566, C12N15/00, C12N5/00 CC
Nucleic acids, kits, and methods for the diagnosis, prognosis CC
and
treatment of glaucoma and related disorders
CC treatment of glaucoma and related disorders
PH Key Location/Qualifiers
FT source 1..18
FT /organism="Homo sapiens (human)".

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LOCATION/Qualifiers
1..18
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 73;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 831 CTCACCATATAGCCCTG 847
| | | | | | | | | | | | | | | |
Db 18 CCCACAATATAGCCCTG 2

RESULT 124
AR242175 18 bp DNA linear PAT 20-DEC-2002
LOCUS
DEFINITION Sequence 14 from patent US 6472156.
ACCESSION AR242175
VERSION AR242175.1 GI:27287993
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Wittwer,C.T. and Herrmann,M.G.
TITLE Homogeneous multiplex hybridization analysis by color and Tm
JOURNAL Patent: US 6472156-A 14 23-OCT-2002;
FEATURES
source
LOCATION/Qualifiers
1..18
/organism="unknown"
/mol_type="genomic DNA"

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 73;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 337 GACAGCGCGCTCGAG 353
| | | | | | | | | | | | | | | |
Db 1 GACAGCGAGCCGCGAG 17

RESULT 125
AR242759/c 18 bp DNA linear PAT 20-DEC-2002
LOCUS
DEFINITION Sequence 16 from patent US 6475724.
ACCESSION AR242759
VERSION AR242759.1 GI:27289398
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Nguyen,T.D., Polansky,J.R., Chen,P. and Chen,H.

treatment of glaucoma and related disorders
Patent: JP 2002534135-A 16 15-OCT-2002;
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
OS Homo sapiens (human)
PN JP 2002534135-A/16
PD 15-OCT-2002
PF 11-JAN-2000 JP 2000593777
PR 11-JAN-1999 US 09/227881,07-MAY-1999 US 09/306828 PI
THAI D NGUYEN, JON R POLANSKY, PU CHEN, HUA CHEN PC
C12N15/09, A61K31/573, A61K45/00, A61P27/06, C12N1/15, C12N1/19, PC
C12N1/21.
CC C12N5/10, C12Q1/68, G01N33/53, G01N33/566, C12N15/00, C12N5/00 CC
Nucleic acids, kits, and methods for the diagnosis, prognosis CC
and
treatment of glaucoma and related disorders
CC treatment of glaucoma and related disorders
PH Key Location/Qualifiers
FT source 1..18
FT /organism="Homo sapiens (human)".

FEATURES
source
LOCATION/Qualifiers
1..18
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/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 73;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 831 CTCACCATATAGCCCTG 847
| | | | | | | | | | | | | | | |
Db 18 CCCACAATATAGCCCTG 2

RESULT 126
AX014687 18 bp DNA linear PAT 07-SEP-2000
LOCUS
DEFINITION Sequence 24 from Patent WO9953091.
ACCESSION AX014687
VERSION AX014687.1 GI:10040961
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1
AUTHORS Holinski-Feder,E., Grimm,L., Ueffing,M. and Meitinger,T.
TITLE Dna coding for gdnf, parts of said dna and gdnf variants
JOURNAL Patent: WO 9953091-A 24 21-OCT-1999;
HOLINSKI FEDER ELKE (DE); GRIMM LENA (DE); UEFFING MARIUS (DE);
LUDWIG MAXIMILIANS UNI MUENCHEN (DE); MEITINGER THOMAS (DE)

FEATURES
source
LOCATION/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 73;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 143 GTGTGGAGCTGGACCAG 159
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Db 2 GTGTGGAGCAGACCAG 18

RESULT 127
BD065054/c 18 bp DNA linear PAT 27-AUG-2002
LOCUS
DEFINITION Methods for the diagnosis, prognosis and treatment of glaucoma and
related disorders.
ACCESSION BD065054
VERSION BD065054.1 GI:22610657
KEYWORDS JP 2001509669-A/16.
SOURCE unidentified
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Nguyen,T.D., Polansky,J.R., Chen,P. and Chen,H.
TITLE Methods for the diagnosis, prognosis and treatment of glaucoma and
related disorders
JOURNAL Patent: JP 2001509669-A 16 24-JUL-2001;
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
COMMENT OS Unidentified
PN JP 2001509669-A/16
PD 24-JUL-2001
PF 09-JAN-1998 JP 1998532017
PR 28-JAN-1997 US 08/791154, 26-SEP-1997 US 08/938669 PI
THAI D NGUYEN, JON R POLANSKY, PU CHEN, HUA CHEN PC
C12N15/12, C12Q1/68, C07K14/47, A61K31/70
CC Strandedness: Single;

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CC Topology: Linear;  
 CC Methods for the diagnosis, prognosis and  
 treatment of glaucoma  
 CC disorders and related  
 CC disorders  
 CC FH Key Location/Qualifiers  
 CC FT source 1..18  
 FT Location/Qualifiers  
 FT 1..18 /organism='Unidentified'.  
 /organism='unidentified'  
 /mol\_type='genomic DNA'  
 /db\_xref='taxon:32644'

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 831 CTCACCATATAGCCCTG 847  
 Db 18 CCCACATATAGCCCTG 2

RESULT 128  
 BD190829/c  
 LOCUS 18 bp DNA linear PAT 17-JUL-2003  
 DEFINITION G-rich oligo aptamers and methods of modulating an immune response.  
 ACCESSION BD190829  
 VERSION BD190829.1 GI:33000568  
 KEYWORDS JP 2002512599-A/11.  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.  
 Tam.R.  
 AUTHORS 1 (bases 1 to 18)  
 TITLE G-rich oligo aptamers and methods of modulating an immune response  
 JOURNAL Patent: JP 2002512599-A 11 23-APR-2002;  
 ICN PHARMACEUTICALS INC  
 COMMENT PN JP 2002512599-A/11  
 PD 23-APR-2002  
 PF 19-DEC-1997 JP 1998530233  
 PR 27-DEC-1996 US 60/034509  
 PI ROBERT TAM  
 PC C07H21/02,A01N43/04,C12Q1/68  
 CC Strandedness: Double;  
 CC Topology: Unknown;  
 FH Key Location/Qualifiers.  
 FH 1..18 Location/Qualifiers  
 1..18 /organism='synthetic construct'  
 /mol\_type='genomic DNA'  
 /db\_xref='taxon:32630'

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 73;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 803 CCCAAGAGCCCTTCA 819  
 Db 18 CCCGAGGAGCCCTTCA 2

RESULT 129  
 AR123065  
 LOCUS 20 bp DNA linear PAT 16-MAY-2001  
 DEFINITION Sequence 9 from patent US 6168950.  
 ACCESSION AR123065  
 VERSION AR123065.1 GI:14108031  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 20)

AUTHORS Monia,B.P., Gaarde,W., Ward,D.T. and Cowsert,L.M.  
 TITLE Antisense modulation of MEK1 expression  
 JOURNAL Patent: US 6168950-A 9 02-JAN-2001;  
 FEATURES Location/Qualifiers  
 source 1..20  
 /organism='unknown'  
 /mol\_type='unassigned DNA'

Query Match 1.4%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 93;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 43 AGCAGCGCGCGCGCGC 59  
 Db 4 AGCGCGCGCGCGCTGC 20

RESULT 130  
 AR033555  
 LOCUS 15 bp DNA linear PAT 29-SEP-1999  
 DEFINITION Sequence 321 from patent US 5869253.  
 ACCESSION AR033555  
 VERSION AR033555.1 GI:5949160  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 15)  
 AUTHORS Draper,K.G.  
 TITLE Method and reagent for inhibiting hepatitis C virus replication  
 JOURNAL Patent: US 5869253-A 321 09-FEB-1999;  
 FEATURES Location/Qualifiers  
 source 1..15  
 /organism='unknown'  
 /mol\_type='unassigned DNA'

Query Match 1.3%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 54;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 385 GCGCGCGCGCGCGAG 399  
 Db 1 GCGCGCGCGCGCGAG 15

RESULT 131  
 AR084532  
 LOCUS 15 bp DNA linear PAT 01-SEP-2000  
 DEFINITION Sequence 21 from patent US 5981185.  
 ACCESSION AR084532  
 VERSION AR084532.1 GI:10011303  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 15)  
 AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
 TITLE Oligonucleotide repeat arrays  
 JOURNAL Patent: US 5981185-A 21 09-NOV-1999;  
 FEATURES Location/Qualifiers  
 source 1..15  
 /organism='unknown'  
 /mol\_type='unassigned DNA'

Query Match 1.3%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 54;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGCGC 127  
 Db 1 GCGCGCGCGCGCGC 15



Mon Jun 28 08:23:01 2004

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REFERENCE 1 (bases 1 to 16)
AUTHORS Selby,M., Thudium,K.B. and Dina,D.
TITLE Noncloning technique for expressing a gene of interest
JOURNAL Patent: US 6096505-A 4 01-AUG-2000;
FEATURES
    source
        Location/Qualifiers
            1..16
            /organism="unknown"
            /mol_type="unassigned DNA"
Query Match 1.3%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 64;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 460 TTGCACACAGATGGAT 474
Db 1 TTGACACAGATGGAT 15

RESULT 137
AX431337 16 bp DNA linear PAT 28-JUN-2002
LOCUS Sequence 46 from Patent WO0240680.
DEFINITION AX431337
ACCESSION AX431337
VERSION AX431337.1 GI:21656195
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Pawlowski,K., Fiorentino,L., Godzik,A., Lee,S.H., Reed,J.C.,
Roth,W. and Stenner-Liewen,F.
TITLE Novel death domain proteins
JOURNAL Patent: WO 0240680-A 46 23-MAY-2002;
BURNHAM INST (US)
FEATURES
    source
        Location/Qualifiers
            1..16
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
            /note="synthetic primer"
Query Match 1.3%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 64;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 14 CAGCGCGCGCGGAG 28
Db 15 CAGACGCGCGCGGAG 1

RESULT 138
BD090038 16 bp DNA linear PAT 27-AUG-2002
LOCUS A method of arraying genome clone.
DEFINITION BD090038
ACCESSION BD090038
VERSION BD090038.1 GI:22635648
KEYWORDS JP 2001321190-A/2282.
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 16)
AUTHORS Soeda,E.
TITLE A method of arraying genome clone
JOURNAL Patent: JP 2001321190-A 2282 20-NOV-2001;
THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
COMMENT
    OS Artificial Sequence
    PN JP 2001321190-A/2282
    PD 20-NOV-2001
    PF 12-MAR-2001 JP 2001068285
    PI EIICHI SOEDA
    PC C12N15/09, C12N15/09, C12M1/00, C12Q1/68, G01N33/53, G01N33/566, PC
    C12N15/00,

PC C12N15/00
CC Description of Artificial Sequence:Synthetic DNA FH Key
. Location/Qualifiers
    1..16
    /organism="Artificial Sequence".
FT source
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        /organism="synthetic construct"
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        /db_xref="taxon:32630"
Query Match 1.3%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 64;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 716 CAGTGGCAGATGCA 730
Db 2 CAGGTGGCAGATGCA 16

RESULT 139
BD225504 16 bp DNA linear PAT 17-JUL-2003
LOCUS Noncloning technique for expressing a gene of interest.
DEFINITION BD225504
ACCESSION BD225504
VERSION BD225504.1 GI:33035274
KEYWORDS JP 2002511257-A/4.
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1 (bases 1 to 16)
AUTHORS Selby,M., Thudium,K. and Dina,D.
TITLE Noncloning technique for expressing a gene of interest
JOURNAL Patent: JP 2002511257-A 4 16-APR-2002;
CHIRON CORP
COMMENT
    OS Artificial Sequence
    PN JP 2002511257-A/4
    PD 16-APR-2002 JP 2000543594
    PF 13-APR-1999 JP 2000543594
    PR 14-APR-1998 US 60/081777
    PI MARK SELBY,KENT THUDIUM,DINO DINA
    PC C12N15/09,C12N5/10,C12P21/02//C07K14/07,C12N15/00,C12N5/00 CC
    Description of Artificial Sequence: mutant neo primer 93 FH Key
FEATURES
    source
        Location/Qualifiers
            1..16
            /organism="Artificial Sequence".
            /db_xref="taxon:32630"
Query Match 1.3%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 64;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 460 TTGCACACAGATGGAT 474
Db 1 TTGACACAGATGGAT 15

RESULT 140
AR074598 17 bp DNA linear PAT 28-AUG-2000
LOCUS Sequence 1 from patent US 595266.
DEFINITION AR074598
ACCESSION AR074598
VERSION AR074598.1 GI:10001351
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Bray,P.F. and Goldschmidt-Clermont,P.J.

```

TITLE Use of platelet polymorphism PlA2 to diagnose risk of thrombotic disease  
JOURNAL Patent: US 5955266-A 1 21-SEP-1999;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
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Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 74;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GAGCCCTGAGGCAGG 17  
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Db 15 GAGCCAGAGGCAGG 1

RESULT 141  
BD241683/c  
LOCUS 17 bp DNA linear PAT 28-AUG-2000  
DEFINITION Sequence 3 from patent US 5955266.  
ACCESSION AR074600  
VERSION AR074600.1 GI:10001353  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Bray,P.F. and Goldschmidt-Clermont,P.J.  
TITLE Use of platelet polymorphism PlA2 to diagnose risk of thrombotic disease  
JOURNAL Patent: US 5955266-A 3 21-SEP-1999;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 74;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GAGCCCTGAGGCAGG 17  
||||| |||||||  
Db 3 GAGCCAGAGGCAGG 17

RESULT 142  
BD241683/c  
LOCUS 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Methods and products related to genotyping and DNA analysis.  
ACCESSION BD241683  
VERSION BD241683.1 GI:33051453  
KEYWORDS JP 2002525127-A/630.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 17)  
Landers,J.E., Jordan,B., Housman,D.E. and Charest,A.  
REFERENCE  
AUTHORS  
TITLE Methods and products related to genotyping and DNA analysis  
JOURNAL Patent: JP 2002525127-A 630 13-AUG-2002;  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
OS Homo sapiens (human)  
COMMENT PN JP 2002525127-A/630  
PD 13-AUG-2002  
PF 24-SEP-1999 JP 2000572407  
PR 25-SEP-1998 US 60/101757  
PI JOHN E LANDERS, BARBARA JORDAN, DAVID E HOUSMAN, ALAIN CHAREST PC C12N15/09, C12Q1/68, G01N33/53, G01N33/566, G01N33/58, G01N37/00, PC G01N37/00,  
PC C12N15/00  
CC Methods and products related to genotyping and DNA analysis FH  
Key  
FT source 1..17  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 74;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 240 GGGAGTGGGACCGGCT 256  
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Db 1 GGGKAGGGGACCGCT 17

RESULT 143  
BD241714  
LOCUS 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Methods and products related to genotyping and DNA analysis.  
ACCESSION BD241714  
VERSION BD241714.1 GI:33051484  
KEYWORDS JP 2002525127-A/661.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 17)  
Landers,J.E., Jordan,B., Housman,D.E. and Charest,A.  
REFERENCE  
AUTHORS  
TITLE Methods and products related to genotyping and DNA analysis  
JOURNAL Patent: JP 2002525127-A 661 13-AUG-2002;  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
OS Homo sapiens (human)  
COMMENT PN JP 2002525127-A/661  
PD 13-AUG-2002  
PF 24-SEP-1999 JP 2000572407  
PR 25-SEP-1998 US 60/101757  
PI JOHN E LANDERS, BARBARA JORDAN, DAVID E HOUSMAN, ALAIN CHAREST PC C12N15/09, C12Q1/68, G01N33/53, G01N33/566, G01N33/58, G01N37/00, PC G01N37/00,  
PC C12N15/00  
CC Methods and products related to genotyping and DNA analysis FH  
Key  
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Location/Qualifiers  
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/db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 74;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 240 GGGAGTGGGACCGGCT 256  
||||| |||||||  
Db 1 GGGKAGGGGACCGCT 17

RESULT 144  
BD258290/c  
LOCUS 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Regulation of repressor genes using nucleic acid molecules.  
ACCESSION BD258290  
VERSION BD258290.1 GI:33068060  
KEYWORDS JP 2002541795-A/6083.  
SOURCE unidentified  
ORGANISM unidentified  
unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.

FT source 1..17  
/organism="Homo sapiens (human)"  
FEATURES Location/Qualifiers  
source 1..17  
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/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 74;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 240 GGGAGTGGGACCGGCT 256  
||||| |||||||  
Db 17 GGGKAGGGGACCGCT 1

RESULT 143  
BD241714  
LOCUS 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Methods and products related to genotyping and DNA analysis.  
ACCESSION BD241714  
VERSION BD241714.1 GI:33051484  
KEYWORDS JP 2002525127-A/661.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 17)  
Landers,J.E., Jordan,B., Housman,D.E. and Charest,A.  
REFERENCE  
AUTHORS  
TITLE Methods and products related to genotyping and DNA analysis  
JOURNAL Patent: JP 2002525127-A 661 13-AUG-2002;  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
OS Homo sapiens (human)  
COMMENT PN JP 2002525127-A/661  
PD 13-AUG-2002  
PF 24-SEP-1999 JP 2000572407  
PR 25-SEP-1998 US 60/101757  
PI JOHN E LANDERS, BARBARA JORDAN, DAVID E HOUSMAN, ALAIN CHAREST PC C12N15/09, C12Q1/68, G01N33/53, G01N33/566, G01N33/58, G01N37/00, PC G01N37/00,  
PC C12N15/00  
CC Methods and products related to genotyping and DNA analysis FH  
Key  
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Location/Qualifiers  
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/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 74;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 240 GGGAGTGGGACCGGCT 256  
||||| |||||||  
Db 1 GGGKAGGGGACCGCT 17

RESULT 144  
BD258290/c  
LOCUS 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Regulation of repressor genes using nucleic acid molecules.  
ACCESSION BD258290  
VERSION BD258290.1 GI:33068060  
KEYWORDS JP 2002541795-A/6083.  
SOURCE unidentified  
ORGANISM unidentified  
unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.

TITLE Regulation of repressor genes using nucleic acid molecules  
JOURNAL Patent: JP 2002541795-A 6083 10-DEC-2002;  
COMMENT RIBOZYME PHARMACEUTICALS INC  
OS Eukaryote  
PD JP 2002541795-A/6083  
PN 10-DEC-2002  
PF 11-APR-2000 JP 2000611654  
PR 12-APR-1999 US 60/129390  
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC  
C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC  
C12P21/02,  
PC  
C12P21/02, C12P21/02/A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC  
C12R1:91),  
PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,  
PC A61K37/02,  
PC (C12N5/00, C12R1:91)  
CC Regulation of repressor genes using nucleic acid molecules FH  
Key Location/Qualifiers  
FT source 1..17  
FT /organism='Eukaryote',  
FEATURES Location/Qualifiers  
source 1..17  
/organism='unidentified'  
/mol\_type='genomic DNA'  
/db\_xref='taxon:32644'  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 74;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 343 GGGCGCTCGAGTCCC 357  
Db 17 GGAGCCTCGAGTCCC 3  
RESULT 145  
AR285940/c 17 bp RNA linear PAT 10-APR-2003  
LOCUS AR285940  
DEFINITION Sequence 312 from patent US 6528640.  
ACCESSION AR285940  
VERSION AR285940.1 GI:29723536  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Beigelman, L., Burgin, A., Beaudry, A., Karpeisky, A.,  
Matulic-Adamic, J., Sweedler, D. and Zinnen, S.  
TITLE Synthetic ribonucleic acids with RNase activity  
JOURNAL Patent: US 6528640-A 312 04-MAR-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism='unknown'  
/mol\_type='unassigned RNA'  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 74;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 49 GCGCGCGCGGTGCC 63  
Db 16 GGGCGCGCGGTGCC 2  
RESULT 146  
AR328101/c 17 bp RNA linear PAT 17-AUG-2003  
LOCUS AR328101  
DEFINITION Sequence 5503 from patent US 6566127.  
ACCESSION AR328101  
VERSION AR328101.1 GI:33713909  
KEYWORDS  
SOURCE Unknown.

ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco, P., McSwiggen, J.A., Stinchcomb, D.T. and Escobedo, J.  
TITLE Method and reagent for the treatment of diseases or conditions  
related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 5503 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism='unknown'  
/mol\_type='unassigned RNA'  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 74;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 444 AGAACTCTCAAGG 458  
Db 17 AGAACTCTCAAGG 3  
RESULT 147  
AR397930/c 17 bp RNA linear PAT 18-DEC-2003  
LOCUS AR397930  
DEFINITION Sequence 311 from patent US 6617438.  
ACCESSION AR397930  
VERSION AR397930.1 GI:40135323  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Beigelman, L., Burgin, A.B., Beaudry, A., Karpeisky, A.,  
Matulic-Adamic, J., Sweedler, D. and Zinnen, S.  
TITLE Oligoribonucleotides with enzymatic activity  
JOURNAL Patent: US 6617438-A 311 09-SEP-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism='unknown'  
/mol\_type='unassigned RNA'  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 74;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 49 GCGCGCGCGGTGCC 63  
Db 16 GGGCGCGCGGTGCC 2  
RESULT 148  
AX214999/c 17 bp RNA linear PAT 07-SEP-2001  
LOCUS AX214999  
DEFINITION Sequence 441 from Patent WO0159103.  
ACCESSION AX214999  
VERSION AX214999.1 GI:15525042  
KEYWORDS  
SOURCE Synthetic construct  
artificial sequences.  
REFERENCE 1  
AUTHORS Blatt, L., McSwiggen, J. and Chowrira, B.M.  
TITLE Method and reagent for the modulation and diagnosis of cd20 and  
nogo gene expression  
JOURNAL Patent: WO 0159103-A 441 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
McSwiggen, James (US); Chowrira, Bharat M. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism='synthetic construct'  
/mol\_type='unassigned RNA'  
/db\_xref='taxon:32630'  
/db\_note='Nucleic Acid'

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 601 GGAGATGAATCTGAA 615  
 ||||| ||||| ||||| |||||  
 Db 15 GGAGATGAATCTGAA 1

RESULT 149  
 AX216346  
 LOCUS AX216346 17 bp RNA linear PAT 07-SEP-2001  
 DEFINITION Sequence 1788 from Patent WO0159103.  
 ACCESSION AX216346  
 VERSION AX216346.1 GI:15526407  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.

REFERENCE 1  
 AUTHORS Blatt, L., McSwiggen, J. and Chowrira, B. M.  
 TITLE Method and reagent for the modulation and diagnosis of cd20 and  
 JOURNAL nogo gene expression  
 Patent: WO 0159103-A 1788 16-AUG-2001;  
 RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
 McSwiggen, James (US); Chowrira, Bharat M. (US)

FEATURES  
 Location/Qualifiers  
 1..17  
 /organism="synthetic construct"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32630"  
 /note="Nucleic Acid"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 111 CTGCGCGCGCGCA 125  
 ||||| ||||| ||||| |||||  
 Db 3 CCGCGCGCGCGCA 17

RESULT 150  
 AX216806/c  
 LOCUS AX216806 17 bp RNA linear PAT 07-SEP-2001  
 DEFINITION Sequence 2248 from Patent WO0159103.  
 ACCESSION AX216806  
 VERSION AX216806.1 GI:15526867  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.

REFERENCE 1  
 AUTHORS Blatt, L., McSwiggen, J. and Chowrira, B. M.  
 TITLE Method and reagent for the modulation and diagnosis of cd20 and  
 JOURNAL nogo gene expression  
 Patent: WO 0159103-A 2248 16-AUG-2001;  
 RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);  
 McSwiggen, James (US); Chowrira, Bharat M. (US)

FEATURES  
 Location/Qualifiers  
 1..17  
 /organism="synthetic construct"  
 /mol\_type="unassigned RNA"  
 /db\_xref="taxon:32630"  
 /note="Nucleic Acid"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 602 GAGATGAATCTGAA 616  
 ||||| ||||| ||||| |||||  
 Db 15 GGAGATGAATCTGAA 1

Db 17 GAGATGAATCTGAAA 3

RESULT 151  
 AX545238/c  
 LOCUS AX545238 17 bp DNA linear PAT 26-NOV-2002  
 DEFINITION Sequence 751 from Patent EP1243660.  
 ACCESSION AX545238  
 VERSION AX545238.1 GI:25810449  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens

REFERENCE 1  
 AUTHORS Zhang, J., Gu, Y. and Nguyen, C. T.  
 TITLE Human udp-galnac:polypeptide n-acetylgalatosaminyltransferase 10  
 JOURNAL Patent: EP 1243660-A 751 25-SEP-2002;  
 Aeomica, Inc. (US)

FEATURES  
 Location/Qualifiers  
 1..17  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 31 GCCTCAAGCGGAGC 45  
 ||||| ||||| ||||| |||||  
 Db 17 GCCTCAATGCGGAGC 3

RESULT 152  
 AX545241/c  
 LOCUS AX545241 17 bp DNA linear PAT 26-NOV-2002  
 DEFINITION Sequence 754 from Patent EP1243660.  
 ACCESSION AX545241  
 VERSION AX545241.1 GI:25810452  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens

REFERENCE 1  
 AUTHORS Zhang, J., Gu, Y. and Nguyen, C. T.  
 TITLE Human udp-galnac:polypeptide n-acetylgalatosaminyltransferase 10  
 JOURNAL Patent: EP 1243660-A 754 25-SEP-2002;  
 Aeomica, Inc. (US)

FEATURES  
 Location/Qualifiers  
 1..17  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 30 AGCCCTCAAGCGGAG 44  
 ||||| ||||| ||||| |||||  
 Db 15 AGCCCTCAATGCGGAG 1

RESULT 153  
 AX672762  
 LOCUS AX672762 17 bp DNA linear PAT 27-MAR-2003  
 DEFINITION Sequence 1207 from Patent WO03004526.  
 ACCESSION AX672762  
 VERSION AX672762.1 GI:29331110  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens (human)

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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Teleman,A., Anson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 1207 16-JAN-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 74;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 639 TCCAGGAGAGGTCCA 653
Db 3 TCCAGTAGAGGTCCA 17

RESULT 154
AX676092/c
LOCUS AX676092 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 45 from Patent WO02059381.
ACCESSION AX676092
VERSION AX676092.1 GI:29333776
KEYWORDS
SOURCE Mus sp.
ORGANISM Mus sp.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 Slaughaupt,S. and Gusella,J.F.
AUTHORS Gene for identifying individuals with familial dysautonomia
TITLE Patent: WO 02059381-A 45 01-AUG-2002;
JOURNAL The General Hospital Corporation (US)
FEATURES
source
1. .17
/organism="Mus sp."
/mol_type="unassigned DNA"
/db_xref="taxon:10095"

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 74;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 531 CTGGAAGCAGCAATG 545
Db 15 CTGGAAGCAAGATG 1

RESULT 155
AX693196
LOCUS AX693196 17 bp DNA linear PAT 31-MAR-2003
DEFINITION Sequence 5928 from Patent EP1281758.
ACCESSION AX693196
VERSION AX693196.1 GI:29416160
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Shannon,M., Gu,Y. and Nguyen,C.T.
AUTHORS Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and
TITLE mdz12
JOURNAL Patent: EP 1281758-A 5928 05-FEB-2003;
Aeomica, Inc. (US)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Teleman,A., Anson,R. and Tuijnder,M.
AUTHORS Sequences involved in phenomena of tumour suppression, tumour
TITLE reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03025176-A 4661 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 74;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 639 TCCAGGAGAGGTCCA 653
Db 3 TCCAGGAGAGGGCCA 17

RESULT 156
AX693199
LOCUS AX693199 17 bp DNA linear PAT 31-MAR-2003
DEFINITION Sequence 5931 from Patent EP1281758.
ACCESSION AX693199
VERSION AX693199.1 GI:29416163
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Shannon,M., Gu,Y. and Nguyen,C.T.
AUTHORS Four human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and
TITLE mdz12
JOURNAL Patent: EP 1281758-A 5931 05-FEB-2003;
Aeomica, Inc. (US)
FEATURES
source
1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 74;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 640 CCAGGAGAGGTCCAG 654
Db 1 CCAGGAGAGGGCCAG 15

RESULT 157
AX726974
LOCUS AX726974 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 4661 from Patent WO03025176.
ACCESSION AX726974
VERSION AX726974.1 GI:30506317
KEYWORDS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 Teleman,A., Anson,R. and Tuijnder,M.
AUTHORS Sequences involved in phenomena of tumour suppression, tumour
TITLE reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025176-A 4661 27-MAR-2003;
Molecular Engines Laboratories (FR)
FEATURES
source
1. .17
/organism="Mus musculus"
/mol_type="unassigned DNA"
/db_xref="taxon:10090"

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 74;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 640 CCAGGAGAGGTCCAG 654
Db 1 CCAGGAGAGGGCCAG 15

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Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 741 TCCAGGAGTTCAGGAG 755  
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 Db 3 TCCAGGAGTTCAGGAG 17

RESULT 158  
 AX781949  
 LOCUS  
 DEFINITION Sequence 280 from Patent WO03050284.  
 ACCESSION AX781949  
 VERSION AX781949.1 GI:32949798  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1  
 Guo,J.  
 TITLE Human prostate cancer candidate protein 1  
 JOURNAL Patent: WO 03050284-A 280 19-JUN-2003;  
 Amersham Biosciences (SV) Corp. (US)  
 FEATURES  
 source  
 1. .17  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 452 TCAAGGGTTGCACA 466  
 |||||  
 Db 3 TCAATGGGTTGCACA 17

RESULT 159  
 AX781950  
 LOCUS  
 DEFINITION Sequence 281 from Patent WO03050284.  
 ACCESSION AX781950  
 VERSION AX781950.1 GI:32949799  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1  
 Guo,J.  
 TITLE Human prostate cancer candidate protein 1  
 JOURNAL Patent: WO 03050284-A 281 19-JUN-2003;  
 Amersham Biosciences (SV) Corp. (US)  
 FEATURES  
 source  
 1. .17  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 452 TCAAGGGTTGCACA 466  
 |||||  
 Db 2 TCAATGGGTTGCACA 16

RESULT 160  
 BD104660  
 LOCUS  
 DEFINITION Kit and method for determining HLA type.

ACCESSION BD104660  
 VERSION WO 0192572-A/764  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM artificial sequences.  
 REFERENCE 1 (bases 1 to 17)  
 AUTHORS Inoko,H., Kagiya,T., Ichihara,T., Matsumura,Y., Moriya,S. and Nishida,M.  
 TITLE Kit and method for determining HLA type  
 JOURNAL Patent: WO 0192572-A 764 06-DEC-2001;  
 NISSHINBO INDUSTRIES INC.SYSTEM RESEARCH INC,HIDETOSHI INOKO, TAEKO KAGIYA, TATSUO ICHIHARA, YOSHIYUKI MATSUMURA,SHOGO MORIYA,MICHIO NISHIDA  
 COMMENT OS Artificial Sequence  
 PN WO 0192572-A/764  
 PD 06-DEC-2001  
 PF 01-JUN-2001 WO 2001JP004662  
 PR 01-JUN-2000 JP 00P 164798  
 PI HIDETOSHI INOKO,TAEKO KAGIYA,TATSUO ICHIHARA,YOSHIYUKI PI MATSUMURA,  
 PI SHOGO MORIYA,MICHIO NISHIDA  
 PC C12Q1/68,C12M1/00,C12N15/09,G01N33/53  
 CC Description of Artificial Sequence:capture  
 FH Key Location/Qualifiers  
 FT source 1. .17  
 /organism='Artificial Sequence'.  
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 1. .17  
 Location/Qualifiers  
 /organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:32630"

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 74;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 78 GGAGGGCGGCGCGG 92  
 |||||  
 Db 2 GGAGGGCGGCGCGG 16

RESULT 161  
 BD208459  
 LOCUS  
 DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to hepatitis C virus infection.  
 ACCESSION BD208459  
 VERSION JP 2002512791-A/2049  
 KEYWORDS unclassified  
 SOURCE unclassified  
 ORGANISM unclassified.  
 REFERENCE 1 (bases 1 to 15)  
 AUTHORS Blatt,L., Mcswiggen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.  
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related to hepatitis C virus infection  
 JOURNAL Patent: JP 2002512791-A 2049 08-MAY-2002;  
 RIBOZYME PHARMACEUTICALS INC  
 COMMENT OS Hepatitis virus (hepatitis C virus)  
 PN JP 2002512791-A/2049  
 PD 08-MAY-2002  
 PF 26-APR-1999 JP 2000545991  
 PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR 25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI LAWRENCE BLATT,JAMES A MCSWIGGEN,ELISABETH ROBERTS,PAMELA A PI PAVCO,  
 PI DENNIS MACEJAK  
 PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,  
 PC A61K37/66,  
 PC C12N15/00  
 CC Enzymatic nucleic acid treatment of diseases or conditions related to

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CC hepatitis C virus infection.
FH Key Location/Qualifiers
FT source 1..15
FT /organism="Hepatitis virus (hepatitis C FT
virus)".
FEATURES
source Location/Qualifiers
1..15
/organism="unidentified"
/mol_type="genomic RNA"
/db_xref="taxon:32644"
Query Match 1.3%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 693 TCCTTCTCTGGC 705
DB 3 TCCTTCTCTGGC 15
RESULT 162
BD208460
LOCUS 15 bp RNA linear PAT 17-JUL-2003
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related
to hepatitis C virus infection.
ACCESSION BD208460
VERSION BD208460.1 GI:33018230
KEYWORDS JP 2002512791-A/2050.
SOURCE unidentified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 15)
AUTHORS Blatt,L., Mcswiggen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
TITLE Enzymatic nucleic acid treatment of diseases or conditions related
to hepatitis C virus infection
JOURNAL Patent: JP 2002512791-A 2050 08-MAY-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Hepatitis virus (hepatitis C virus)
PN JP 2002512791-A/2050
PD 08-MAY-2002
PF 26-APR-1999 JP 2000545991
PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
LAWRENCE BLATT, JAMES A MCSWIGGEN, ELISABETH ROBERTS, PAMELA A PI
PAVCO,
PI DENNIS MACEJAK
PC C12N5/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
PC A61K37/66,
PC C12N15/00
CC Enzymatic nucleic acid treatment of diseases or conditions CC
related to
CC hepatitis C virus infection.
FH Key Location/Qualifiers
FT source 1..15
FT /organism="Hepatitis virus (hepatitis C FT
virus)".
FEATURES
source Location/Qualifiers
1..15
/organism="unidentified"
/mol_type="genomic RNA"
/db_xref="taxon:32644"
Query Match 1.3%; Score 13; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 693 TCCTTCTCTGGC 705
DB 1 TCCTTCTCTGGC 13
RESULT 163
AX328241
LOCUS 16 bp RNA linear PAT 07-JAN-2002
DEFINITION Sequence 13 from Patent WO0183754.
ACCESSION AX328241
VERSION AX328241.1 GI:18098222
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Kruger,M., Welch,P.J. and Barber,J.R.
TITLE Cellular regulators of infectious agents and methods of use
JOURNAL Patent: WO 0183754-A 13 08-NOV-2001;
Immusol Incorporated (US)
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source Location/Qualifiers
1..16
/organism="Homo sapiens"
/mol_type="unassigned RNA"
/db_xref="taxon:9606"
Query Match 1.3%; Score 13; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 972 GCCTCAGAACTGC 984
DB 4 GCCTCAGAACTGC 16
RESULT 164
BD254226/c
LOCUS 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD254226
VERSION BD254226.1 GI:33063996
KEYWORDS JP 2002541795-A/2019.
SOURCE unidentified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 2019 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PN JP 2002541795-A/2019
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key source Location/Qualifiers
FT source 1..17
FT /organism="Eukaryote".
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/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
Query Match 1.3%; Score 13; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 363 GGCCGAGCCCGGG 375

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Db 13 GGCCGAGCCCGG 1

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RESULT 165

BD266292

LOCUS Universal arrays.

DEFINITION BD266292

ACCESSION BD266292

VERSION 1 GI:33076060

KEYWORDS JP 2002539849-A/292.

SOURCE synthetic construct

ORGANISM synthetic construct

REFERENCE 1 (bases 1 to 17)

AUTHORS Fan,J.B., Hirschhorn,J.N., Huang,X., Kaplan,P., Lander,E.S., Lockhart,D.J., Ryder,T. and Sklar,P.

TITLE Universal arrays

JOURNAL Universal arrays

COMMENT PATENT: JP 2002539849-A 292 26-NOV-2002; WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH, AFFYMETRIX INC

OS Artificial Sequence

PN JP 2002539849-A/292

PD 26-NOV-2002

PF 27-MAR-2000 JP 2000608794

PR 26-MAR-1999 US 60/126473, 23-JUN-1999 US 60/140359 PI

JTAN BING FAN, JOEL N HIRSCHHORN, XIAOHUA HUANG, PAUL KAPLAN, ERIC S LANDER,

PI DAVID J LOCKHART, THOMAS RYDER, PAMELA SKLAR

PC C1201/68, C12M1/00, C12N15/09, C12N15/09, C12N15/09, G01N33/53, PC G01N33/566,

PC G01N37/00, C12N15/00, C12N15/00, C12N15/00

CC Primer

FH Key

FT source

FT Location/Qualifiers

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QY 253 GGCTTCAGCCTG 265

Db 3 GGCTTCAGCCTG 15

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RESULT 166

AX579452

LOCUS Sequence 1290 from Patent WO0211674.

DEFINITION AX579452

ACCESSION AX579452

VERSION AX579452.1 GI:27648654

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E. and Grupe,A.

JOURNAL Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)

Patent: WO 0211674-A 1290 14-FEB-2002;

RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)

FEATURES

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Query Match 1.3%; Score 13; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 86;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 978 GAACTGCAGCTGT 990

Db 1 GAACTGCAGCTGT 13

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RESULT 168

AX580186

LOCUS Sequence 2024 from Patent WO0211674.

DEFINITION AX580186

ACCESSION AX580186

VERSION AX580186.1 GI:27649388

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E. and Grupe,A.

JOURNAL Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)

Patent: WO 0211674-A 2024 14-FEB-2002;

RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)

FEATURES

source

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Query Match 1.3%; Score 13; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 86;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 605 ATCGATCTGAAAT 617

Db 1 ATCGATCTGAAAT 13

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RESULT 167

AX579772

LOCUS Sequence 1610 from Patent WO0211674.

DEFINITION AX579772

ACCESSION AX579772

VERSION AX579772.1 GI:27648974

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E. and Grupe,A.

JOURNAL Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)

Patent: WO 0211674-A 1610 14-FEB-2002;

RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)

FEATURES

source

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/mol\_type="unassigned RNA"

/db\_xref="taxon:9606"

Query Match 1.3%; Score 13; DB 1; Length 17;

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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 978 GAACTGCAGCTGT 990

Db 1 GAACTGCAGCTGT 13

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RESULT 168

AX580186

LOCUS Sequence 2024 from Patent WO0211674.

DEFINITION AX580186

ACCESSION AX580186

VERSION AX580186.1 GI:27649388

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E. and Grupe,A.

JOURNAL Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)

Patent: WO 0211674-A 2024 14-FEB-2002;

RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)

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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 605 ATCGATCTGAAAT 617

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RESULT 167

AX579772

LOCUS Sequence 1610 from Patent WO0211674.

DEFINITION AX579772

ACCESSION AX579772

VERSION AX579772.1 GI:27648974

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E. and Grupe,A.

JOURNAL Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)

Patent: WO 0211674-A 1610 14-FEB-2002;

RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)

FEATURES

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Query Match 1.3%; Score 13; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 86;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 978 GAACTGCAGCTGT 990

Db 1 GAACTGCAGCTGT 13

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RESULT 168

AX580186

LOCUS Sequence 2024 from Patent WO0211674.

DEFINITION AX580186

ACCESSION AX580186

VERSION AX580186.1 GI:27649388

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Thompson,J., Mcswiggen,J., Mckenzie,T., Ayers,D., Szymkowski,D.E. and Grupe,A.

JOURNAL Method and reagent for the inhibition of calcium activated chloride channel-1 (clca-1)

Patent: WO 0211674-A 2024 14-FEB-2002;

RIBOZYME PHARMACEUTICALS, INC. (US) ; Syntex (U.S.A.) LLC (US) ; Thompson, James (US)

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Db 1 ATCGATCTGAAAT 13

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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 5 GATGGATCTGAAA 17

RESULT 169
AX722809
LOCUS AX722809 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 496 from Patent WO03025176.
ACCESSION AX722809
VERSION AX722809.1 GI:30423310
KEYWORDS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025176-A 496 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Qy 582 AAAACCAATCCCA 594
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Db 5 AAAACCAATCCCA 17

RESULT 170
AX732611
LOCUS AX732611 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 4245 from Patent WO03025175.
ACCESSION AX732611
VERSION AX732611.1 GI:30511954
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 4245 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Qy 776 CTTTCAGAGTGG 788
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Db 4 CTTTCAGAGTGG 16

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RESULT 171
AX732819
LOCUS AX732819 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 4453 from Patent WO03025175.
ACCESSION AX732819
VERSION AX732819.1 GI:30512162
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 4453 27-MAR-2003;
Molecular Engines Laboratories (FR)
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

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Qy 750 AAGGAGAAAAGA 762
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Db 15 AAGGAGAAAAGA 3

RESULT 172
AX735020
LOCUS AX735020 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 610 from Patent WO03025177.
ACCESSION AX735020
VERSION AX735020.1 GI:30514297
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 610 27-MAR-2003;
Molecular Engines Laboratories (FR)
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Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 77 GGGAGCGGGCAG 89
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Db 16 GGGAGCGGGCAG 4

RESULT 173
AX757003
LOCUS AX757003 17 bp DNA linear PAT 25-JUN-2003
DEFINITION Sequence 324 from Patent WO03040369.
ACCESSION AX757003
VERSION AX757003.1 GI:32251619
KEYWORDS

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SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Telesman, A., Anson, R. and Tuijinder, M.  
TITLE Sequences involved in tumoral suppression, tumoral reversion,  
apoptosis and/or viral resistance phenomena and their use as  
medicines  
JOURNAL Patent: WO 03040369-A 324 15-MAY-2003;  
Molecular Engines Laboratories (FR)  
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Best Local Similarity 100.0%; Pred. NO. 86;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 8 CTGAGGCAGGCGG 20  
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Db 16 CTGAGGCAGGCGG 4  
RESULT 174  
AX531299  
LOCUS 17 bp DNA linear PAT 22-NOV-2002  
DEFINITION Sequence 808 from Patent EP1239051.  
ACCESSION AX531299  
VERSION AX531299.1 GI:25254384  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Shannon, M.  
TITLE Human posh-like protein 1  
JOURNAL Patent: EP 1239051-A 808 11-SEP-2002;  
Aeomica, Inc. (US)  
FEATURES  
source  
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/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. NO. 92;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 409 GCAGGCGCCCGCCG 424  
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Db 1 GCAGGCGCCCGCCG 16  
Search completed: June 28, 2004, 08:01:41  
Job time : 3 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 28, 2004, 08:08:27 ; Search time 2 Seconds  
(without alignments)  
3.451 Million cell updates/sec

Title: US-10-069-079-1  
Perfect score: 1000  
Sequence: 1 ccgagccctgagcagcg...ctgcagctgtgcatggaa 1000

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 0.5

Searched: 192 seqs, 3451 residues

Total number of hits satisfying chosen parameters: 384

Minimum DB seq length: 8  
Maximum DB seq length: 80

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 198 summaries

Database : rngl.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	26	2.6	26	1	Human MEK1 real-t
2	23	2.3	23	1	Human MEK1 real-t
3	21	2.1	21	1	Human MEK1 real-t
4	20	2.0	20	1	Human MEK1 phosph
5	20	2.0	20	1	Human MEK1 phosph
6	20	2.0	20	1	Human MEK1 phosph
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8	20	2.0	20	1	Human MEK1 phosph
9	20	2.0	20	1	Human MEK1 phosph
10	20	2.0	20	1	Human MEK1 phosph
11	17.8	1.8	21	1	Sense primer-3 for
12	17.8	1.8	21	1	Human MEK1 PCR pr
13	17.4	1.7	21	1	Rabies surface gly
14	16.4	1.6	20	1	S-adenosylmethion
15	16.4	1.6	20	1	Primer for LAMC2 g
16	16.4	1.6	20	1	LAMC2 gene PCR pri
17	16.2	1.6	21	1	Zea mays genome re
18	16.2	1.6	21	1	PCR primer R3. Pa
19	16	1.6	18	1	PCR primer Cbetain
20	16	1.6	18	1	Primer Cbeta-int.
21	16	1.6	18	1	Human T cell recep
22	16	1.6	18	1	Human T cell recep
23	16	1.6	18	1	PCR primer used to
24	16	1.6	18	1	Human TCR beta-cha
25	15.8	1.6	19	1	Colon carcinoma sp
26	15.8	1.6	19	1	Human biallelic ma
27	15.8	1.6	20	1	Unmethylated Cpg d
28	15.8	1.6	20	1	Cpg-N motif O-ODN
29	15.8	1.6	20	1	Human biallelic ma
30	15.8	1.6	20	1	Human c-fos oligo
31	15.8	1.6	20	1	Human c-fos Bodipy
32	15.8	1.6	20	1	Immunostimulatory
33	15.8	1.6	20	1	Human E2f transcri

Bcl-2-targeting an	1	ABK30289	15.8	1.6	20
Angiogenesis inhib	1	ABK30289	15.8	1.6	20
Immunostimulatory	1	ABK30289	15.8	1.6	20
Antisense oligodeo	1	ABK30289	15.8	1.6	20
Oligonucleotide.	1	ABK30289	15.8	1.6	20
Human oligonucleot	1	ABK30289	15.8	1.6	20
Immunostimulatory	1	ABK30289	15.8	1.6	20
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Protein kinase inh	1	ABK30289	15.8	1.6	20
Hepatitis C virus	1	ABK30289	15.8	1.6	20
Human NCOG Ambery	1	ABK30289	15.8	1.6	20
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Human NCOG inozyme	1	ABK30289	15.8	1.6	20
Human BCL2 gene PC	1	ABK30289	15.8	1.6	20
Human oligonucleot	1	ABK30289	15.8	1.6	20
FKBP12C PCR primer	1	ABK30289	15.8	1.6	20
Human gene signatu	1	ABK30289	15.8	1.6	20
Primer C for PCR o	1	ABK30289	15.8	1.6	20
Human biallelic ma	1	ABK30289	15.8	1.6	20
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Human Bcl-2 protei	1	ABK30289	15.8	1.6	20
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IGFBP2 oligonucleo	1	ABK30289	15.8	1.6	20
Human NCOG Zinzyme	1	ABK30289	15.8	1.6	20
Human H-Ras DNazym	1	ABK30289	15.8	1.6	20
Human C-beta-inter	1	ABK30289	15.8	1.6	20
NP-kB anti-sense p	1	ABK30289	15.8	1.6	20
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Human IL-2 recepto	1	ABK30289	15.8	1.6	20
Human ICAM-1 antis	1	ABK30289	15.8	1.6	20
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C/EBP-beta antisen	1	ABK30289	15.8	1.6	20
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Human C/EBP polynu	1	ABK30289	15.8	1.6	20
Cell-cycle depende	1	ABK30289	15.8	1.6	20
Human C/EBP depende	1	ABK30289	15.8	1.6	20
Antisense oligonuc	1	ABK30289	15.8	1.6	20
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Heterologous duple	1	ABK30289	15.8	1.6	20
Human NCOG Zinzyme	1	ABK30289	15.8	1.6	20
Human NCOG Zinzyme	1	ABK30289	15.8	1.6	20
Human NCOG Hammarh	1	ABK30289	15.8	1.6	20
Human pp-GaNTase 1	1	ABK30289	15.8	1.6	20
Human tumour suppr	1	ABK30289	15.8	1.6	20
Tumour suppression	1	ABK30289	15.8	1.6	20
Tumour suppression	1	ABK30289	15.8	1.6	20
Human MDZ12 scanni	1	ABK30289	15.8	1.6	20
Human MDZ12 scanni	1	ABK30289	15.8	1.6	20
HCV DNasezyme substr	1	ABK30289	15.8	1.6	20
Marine oligonucleo	1	ABK30289	15.8	1.6	20
Tumour suppression	1	ABK30289	15.8	1.6	20
PCR primer used to	1	ABK30289	15.8	1.6	20
Human biallelic ma	1	ABK30289	15.8	1.6	20
Murine Sox2 gene P	1	ABK30289	15.8	1.6	20
PCR primer B-F use	1	ABK30289	15.8	1.6	20
TRADD antisense ol	1	ABK30289	15.8	1.6	20
Human Her-2 antise	1	ABK30289	15.8	1.6	20
IGFBP2 oligonucleo	1	ABK30289	15.8	1.6	20
IGFBP2 oligonucleo	1	ABK30289	15.8	1.6	20
Human CLCA1 gene e	1	ABK30289	15.8	1.6	20
Human CLCA1 gene e	1	ABK30289	15.8	1.6	20
Human CLCA1 gene e	1	ABK30289	15.8	1.6	20
Human CLCA1 gene e	1	ABK30289	15.8	1.6	20
Human lrb gene 5'	1	ABK30289	15.8	1.6	20
Human H-Ras DNazym	1	ABK30289	15.8	1.6	20





The present sequence represents a human MEK1 probe used in quantitative real-time PCR with primers AAF27080-AAF27081 in an exemplification of the present invention. The invention relates to antisense oligonucleotides targeted to the human MEK1 gene, which inhibit its expression. A series of oligonucleotides (AAF27086-AAF27125) were designed to target different regions of the human MEK1 RNA, and were analyzed for their effect on MEK1 mRNA levels by quantitative real-time PCR. GAPDH (glyceraldehyde-3-phosphate) mRNA levels were measured as a control. MEK1 (also known as mitogen-activated protein kinase kinase kinase 1, MEK kinase 1 and MAP/ERK kinase kinase 1) is a dual-specific serine/threonine kinase which mediates cellular responses to mitogenic stimuli, being involved in JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP kinase cascades. MEK1 regulates signalling events associated with apoptosis (programmed cell death), and NF-kappa-B, both of which have been associated with the development of hyperproliferative disorders such as cancer. Specifically, MEK1 lies directly downstream of Bcl-2 in an apoptotic signalling cascade, and plays a critical role in the control of NF-kappa-B-mediated transcription at multiple points in the apoptotic cascade. The oligonucleotides of the invention are useful for diagnosis, prevention and treatment of conditions associated with MEK1 expression, such as inflammation, and cancer and other hyperproliferative disorders.

XX	Example 14; Col 39; 35pp; English.
XX	
XX	Sequences AAF27080-AAF27081 represent human MEK1 PCR primers used in quantitative real-time PCR with probe AAF27082 in an exemplification of the present invention. The invention relates to antisense oligonucleotides targeted to the human MEK1 gene, which inhibit its expression. A series of oligonucleotides (AAF27086-AAF27125) were designed to target different regions of the human MEK1 RNA, and were analysed for their effect on MEK1 mRNA levels by quantitative real-time PCR. GAPDH (glyceraldehyde-3-phosphate) mRNA levels were measured as a control. MEK1 (also known as mitogen-activated protein kinase kinase 1, MEK kinase 1 and MAP/ERK kinase kinase 1) is a dual-specific serine/threonine kinase which mediates cellular responses to mitogenic stimuli, being involved in JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP kinase cascades. MEK1 regulates signalling events associated with apoptosis (programmed cell death) and NF-kappa-B, both of which have been associated with the development of hyperproliferative disorders such as cancer. Specifically, MEK1 lies directly downstream of Bcl-2 in an apoptotic signalling cascade, and plays a critical role in the control of NF-kappa-B-mediated transcription at multiple points in the apoptotic cascade. The oligonucleotides of the invention are useful for diagnosis, prevention and treatment of conditions associated with MEK1 expression, such as inflammation, cancer and other hyperproliferative disorders
XX	
XX	Sequence 23 BP; 9 A; 5 C; 5 G; 4 T; 0 U; 0 Other;
XX	
XX	Query March 2.3%; Score 23; DB 1; Length 23;
XX	Best Local Similarity 100.0%; Pred. No. 3.4;
XX	Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	445 GAACCTCTCAAGGGTTGCACA 467 
DB	1 GAACCTCTCAAGGGTTGCACA 23 
RESULT 3	
AAAF27081/C	
ID	AAF27081 standard; DNA; 21 BP.
XX	
AC	AAF27081;
XX	
DT	06-APR-2001 (first entry)
XX	
DE	Human MEK1 real-time quantitative PCR primer, SEQ ID NO:3.
XX	
KW	Human MEK1; mitogen-activated protein kinase kinase 1;
KW	MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;
KW	apoptosis signal regulation; programmed cell death;
KW	serine/threonine kinase; MAP kinase cascade; JNK/SAPK;
KW	Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;
KW	NF-kappa-B-mediated transcription regulation; expression inhibition;
KW	antisense therapy; hyperproliferative disorder; cancer; inflammation;
KW	quantitative real-time.PCR primer; ss.
XX	
OS	Homo sapiens.
XX	
FN	US6168950-B1.
XX	
PD	02-JAN-2001.
XX	
PF	23-JUL-1999; 99US-00359756.
XX	
PR	23-JUL-1999; 99US-00359756.
XX	
PA	(ISIS-) ISIS PHARM INC.
XX	
PI	Monia BP, Cowseert LM, Gaarde W, Ward DT;
XX	
DR	WPI; 2001-122264/13.
PT	New antisense compound targeting nucleic acid encoding human mitogen-

PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases  
 PT or conditions associated with MEKK1 expression, or preventing  
 PT inflammation or tumor formation.  
 XX Example 14; Col 39; 35pp; English.  
 PS  
 CC Sequences AAF27080-AAF27081 represent human MEKK1 PCR primers used in  
 CC quantitative real-time PCR with probe AAF27082 in an exemplification of  
 CC the present invention. The invention relates to antisense  
 CC oligonucleotides targeted to the human MEKK1 gene, which inhibit its  
 CC expression. A series of oligonucleotides (AAF27086-AAF27125) were  
 CC designed to target different regions of the human MEKK1 RNA, and were  
 CC analysed for their effect on MEKK1 mRNA levels by quantitative real-time  
 CC PCR. GAPDH (glyceraldehyde-3-phosphate) mRNA levels were measured as a  
 CC control. MEKK1 (also known as mitogen-activated protein kinase  
 CC kinase 1, MEK kinase 1 and MAP/ERK kinase 1) is a dual-specific  
 CC serine/threonine kinase which mediates cellular responses to mitogenic  
 CC stimuli, being involved in JNK/SAPK (Jun N-terminal kinase/stress-  
 CC activated protein kinase) MAP kinase cascades. MEKK1 regulates signalling  
 CC events associated with apoptosis (programmed cell death) and NF-kappa-B,  
 CC both of which have been associated with the development of  
 CC hyperproliferative disorders such as cancer. Specifically, MEKK1 lies  
 CC directly downstream of Bcl-2 in an apoptotic signalling cascade, and  
 CC plays a critical role in the control of NF-kappa-B-mediated transcription  
 CC at multiple points in the apoptotic cascade. The oligonucleotides of the  
 CC invention are useful for diagnosis, prevention and treatment of  
 CC conditions associated with MEKK1 expression, such as inflammation, and  
 CC cancer and other hyperproliferative disorders  
 XX  
 SQ Sequence 21 BP; 4 A; 6 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 2.1%; Score 21; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 6.5;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 509 TGAAGGCAACCTGTATGCCAG 529  
 |||||  
 Db 21 TGAAGGCAACCTGTATGCCAG 1

RESULT 4  
 AAF27086/c  
 ID AAF27086 standard; DNA; 20 BP.  
 XX  
 AC AAF27086;  
 XX  
 DT 06-APR-2001 (first entry)  
 XX  
 DE Human MEKK1 phosphorothioate antisense oligonucleotide, SEQ ID NO:8.  
 XX  
 KW Human MEKK1; mitogen-activated protein kinase kinase 1;  
 KW MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;  
 KW apoptosis signal regulation; programmed cell death;  
 KW serine/threonine kinase; MAP kinase cascade; JNK/SAPK;  
 KW Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;  
 KW NF-kappa-B-mediated transcription regulation; expression inhibition;  
 KW antisense; hyperproliferative disorder; cancer; inflammation;  
 KW phosphorothioate; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US6168950-B1.  
 XX  
 XX 02-JAN-2001.  
 XX  
 XX 23-JUL-1999; 99US-00359756.  
 XX  
 XX 23-JUL-1999; 99US-00359756.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Cowser LM, Gaarde W, Ward DT;  
 XX  
 XX WPI; 2001-122264/13.

DR WPI; 2001-122264/13.

XX New antisense compound targeting nucleic acid encoding human mitogen-  
 PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases  
 PT or conditions associated with MEKK1 expression, or preventing  
 PT inflammation or tumor formation.  
 XX  
 XX Claim 14; Col 39; 35pp; English.

CC Sequences AAF27086-AAF27125 represent phosphorothioate antisense  
 CC oligonucleotides targeted to the human MEKK1 gene, which inhibit its  
 CC expression. The antisense oligonucleotides were designed to target  
 CC different regions of the human MEKK1 RNA, and were analysed for their  
 CC effect on MEKK1 mRNA levels by quantitative real-time PCR. MEKK1 (also  
 CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1  
 CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase  
 CC which mediates cellular responses to mitogenic stimuli, being involved in  
 CC JNK/SAPK (Jun N-terminal kinase/stress- activated protein kinase) MAP  
 CC kinase cascades. MEKK1 regulates signalling events associated with  
 CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been  
 CC associated with the development of hyperproliferative disorders such as  
 CC cancer. Specifically, MEKK1 lies directly downstream of Bcl-2 in an  
 CC apoptotic signalling cascade, and plays a critical role in the control of  
 CC NF-kappa-B-mediated transcription at multiple points in the apoptotic  
 CC cascade. The oligonucleotides of the invention are useful for diagnosis,  
 CC prevention and treatment of conditions associated with MEKK1 expression,  
 CC such as inflammation, and cancer and other hyperproliferative disorders  
 XX  
 SQ Sequence 20 BP; 0 A; 12 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.0%; Score 20; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 8.8;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 13 GCAGGCGCGCGGAGGAGC 32  
 |||||  
 Db 20 GCAGGCGCGCGGAGGAGC 1

RESULT 5  
 AAF27091/c  
 ID AAF27091 standard; DNA; 20 BP.  
 XX  
 AC AAF27091;  
 XX  
 DT 06-APR-2001 (first entry)  
 XX  
 DE Human MEKK1 phosphorothioate antisense oligonucleotide, SEQ ID NO:13.  
 XX  
 KW Human MEKK1; mitogen-activated protein kinase kinase 1;  
 KW MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;  
 KW apoptosis signal regulation; programmed cell death;  
 KW serine/threonine kinase; MAP kinase cascade; JNK/SAPK;  
 KW Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;  
 KW NF-kappa-B-mediated transcription regulation; expression inhibition;  
 KW antisense; hyperproliferative disorder; cancer; inflammation;  
 KW phosphorothioate; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US6168950-B1.  
 XX  
 XX 02-JAN-2001.  
 XX  
 XX 23-JUL-1999; 99US-00359756.  
 XX  
 XX 23-JUL-1999; 99US-00359756.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 XX  
 XX Monia BP, Cowser LM, Gaarde W, Ward DT;  
 XX  
 XX WPI; 2001-122264/13.

XX New antisense compound targeting nucleic acid encoding human mitogen-  
PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases  
PT or conditions associated with MEKK1 expression, or preventing  
PT inflammation or tumor formation.  
XX  
XX Claim 14; Col 39; 35pp; English.  
XX  
XX Sequences AAF27086-AAF27125 represent phosphorothioate antisense  
CC oligonucleotides targeted to the human MEKK1 gene, which inhibit its  
CC expression. The antisense oligonucleotides were designed to target  
CC different regions of the human MEKK1 RNA, and were analysed for their  
CC effect on MEKK1 mRNA levels by quantitative real-time PCR. MEKK1 (also  
CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1  
CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase  
CC which mediates cellular responses to mitogenic stimuli, being involved in  
CC JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP  
CC kinase cascades. MEKK1 regulates signalling events associated with  
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been  
CC associated with the development of hyperproliferative disorders such as  
CC cancer. Specifically, MEKK1 lies directly downstream of Bcl-2 in an  
CC apoptotic signalling cascade, and plays a critical role in the control of  
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic  
CC cascade. The oligonucleotides of the invention are useful for diagnosis,  
CC prevention and treatment of conditions associated with MEKK1 expression,  
CC such as inflammation, and cancer and other hyperproliferative disorders  
XX  
XX Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;  
SQ

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.8;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 CCACCTTACCGAGTCGGTGG 328  
Db 20 CCACCTTACCGAGTCGGTGG 1  
|||||

RESULT 6  
AAF27088/c  
ID AAF27088 standard; DNA; 20 BP.  
XX  
XX AAF27088;  
XX  
XX 06-APR-2001 (first entry)  
XX Human MEKK1 phosphorothioate antisense oligonucleotide, SEQ ID NO:10.  
XX Human MEKK1; mitogen-activated protein kinase kinase 1;  
XX MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;  
XX apoptosis signal regulation; programmed cell death;  
XX serine/threonine kinase; MAP kinase cascade; JNK/SAPK;  
XX Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;  
XX NF-kappa-B-mediated transcription regulation; expression inhibition;  
XX antisense; hyperproliferative disorder; cancer; inflammation;  
XX phosphorothioate; ss.  
XX Homo sapiens.  
XX  
XX US6168950-B1.  
XX  
XX 02-JAN-2001.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX Monia BP, Cowseert LM, Gaarde W, Ward DT;  
XX WPI; 2001-122264/13.  
XX  
XX New antisense compound targeting nucleic acid encoding human mitogen-

PT New antisense compound targeting nucleic acid encoding human mitogen-  
PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases  
PT or conditions associated with MEKK1 expression, or preventing  
PT inflammation or tumor formation.  
XX  
XX Claim 14; Col 39; 35pp; English.  
XX  
XX Sequences AAF27086-AAF27125 represent phosphorothioate antisense  
CC oligonucleotides targeted to the human MEKK1 gene, which inhibit its  
CC expression. The antisense oligonucleotides were designed to target  
CC different regions of the human MEKK1 RNA, and were analysed for their  
CC effect on MEKK1 mRNA levels by quantitative real-time PCR. MEKK1 (also  
CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1  
CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase  
CC which mediates cellular responses to mitogenic stimuli, being involved in  
CC JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP  
CC kinase cascades. MEKK1 regulates signalling events associated with  
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been  
CC associated with the development of hyperproliferative disorders such as  
CC cancer. Specifically, MEKK1 lies directly downstream of Bcl-2 in an  
CC apoptotic signalling cascade, and plays a critical role in the control of  
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic  
CC cascade. The oligonucleotides of the invention are useful for diagnosis,  
CC prevention and treatment of conditions associated with MEKK1 expression,  
CC such as inflammation, and cancer and other hyperproliferative disorders  
XX  
XX Sequence 20 BP; 1 A; 11 C; 6 G; 2 T; 0 U; 0 Other;  
SQ

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.8;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 94 GGCGCGGAGCGGGGACTG 113  
Db 20 GGCGCGGAGCGGGGACTG 1  
|||||

RESULT 7  
AAF27089/c  
ID AAF27089 standard; DNA; 20 BP.  
XX  
XX AAF27089;  
XX  
XX 06-APR-2001 (first entry)  
XX Human MEKK1 phosphorothioate antisense oligonucleotide, SEQ ID NO:11.  
XX Human MEKK1; mitogen-activated protein kinase kinase 1;  
XX MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;  
XX apoptosis signal regulation; programmed cell death;  
XX serine/threonine kinase; MAP kinase cascade; JNK/SAPK;  
XX Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;  
XX NF-kappa-B-mediated transcription regulation; expression inhibition;  
XX antisense; hyperproliferative disorder; cancer; inflammation;  
XX phosphorothioate; ss.  
XX Homo sapiens.  
XX  
XX US6168950-B1.  
XX  
XX 02-JAN-2001.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX Monia BP, Cowseert LM, Gaarde W, Ward DT;  
XX WPI; 2001-122264/13.  
XX  
XX New antisense compound targeting nucleic acid encoding human mitogen-

PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases  
PT or conditions associated with MEKK1 expression, or preventing  
XX inflammation or tumor formation.  
PS Claim 14; Col 39; 35pp; English.  
XX Sequences AAF27086-AAF27125 represent phosphothioate antisense  
CC oligonucleotides targeted to the human MEKK1 gene, which inhibit its  
CC expression. The antisense oligonucleotides were designed to target  
CC different regions of the human MEKK1 RNA, and were analysed for their  
CC effect on MEKK1 mRNA levels by quantitative real-time PCR. MEKK1 (also  
CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1  
CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase  
CC which mediates cellular responses to mitogenic stimuli, being involved in  
CC JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP  
CC kinase cascades. MEKK1 regulates signalling events associated with  
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been  
CC associated with the development of hyperproliferative disorders such as  
CC cancer. Specifically, MEKK1 lies directly downstream of Bcl-2 in an  
CC apoptotic signalling cascade, and plays a critical role in the control of  
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic  
CC cascade. The oligonucleotides of the invention are useful for diagnosis,  
CC prevention and treatment of conditions associated with MEKK1 expression,  
CC such as inflammation, and cancer and other hyperproliferative disorders  
XX SQ Sequence 20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.8;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 148 GAGCTGGACCGAGCTGCTGA 167  
|||||  
DB 20 GAGCTGGACCGAGCTGCTGA 1

RESULT 8  
AAF27090/c  
ID AAF27090 standard; DNA; 20 BP.  
AC AAF27090;  
XX  
XX 06-APR-2001 (first entry)  
XX Human MEKK1 phosphothioate antisense oligonucleotide, SEQ ID NO:12.  
XX Human MEKK1; mitogen-activated protein kinase kinase 1;  
XX MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;  
XX apoptosis signal regulation; programmed cell death;  
XX serine/threonine kinase; MAP kinase cascade; JNK/SAPK;  
XX Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;  
XX NF-kappa-B-mediated transcription regulation; expression inhibition;  
XX antisense; hyperproliferative disorder; cancer; inflammation;  
XX phosphothioate; ss.  
XX Homo sapiens.  
XX  
XX US6168950-B1.  
XX  
XX 02-JAN-2001.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Monia BP, Cowser LM, Gaarde W, Ward DT;  
XX WPI; 2001-122264/13.  
XX  
XX New antisense compound targeting nucleic acid encoding human mitogen-  
PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases

PT or conditions associated with MEKK1 expression, or preventing  
PT inflammation or tumor formation.  
XX Claim 14; Col 39; 35pp; English.  
XX Sequences AAF27086-AAF27125 represent phosphothioate antisense  
CC oligonucleotides targeted to the human MEKK1 gene, which inhibit its  
CC expression. The antisense oligonucleotides were designed to target  
CC different regions of the human MEKK1 RNA, and were analysed for their  
CC effect on MEKK1 mRNA levels by quantitative real-time PCR. MEKK1 (also  
CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1  
CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase  
CC which mediates cellular responses to mitogenic stimuli, being involved in  
CC JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP  
CC kinase cascades. MEKK1 regulates signalling events associated with  
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been  
CC associated with the development of hyperproliferative disorders such as  
CC cancer. Specifically, MEKK1 lies directly downstream of Bcl-2 in an  
CC apoptotic signalling cascade, and plays a critical role in the control of  
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic  
CC cascade. The oligonucleotides of the invention are useful for diagnosis,  
CC prevention and treatment of conditions associated with MEKK1 expression,  
CC such as inflammation, and cancer and other hyperproliferative disorders  
XX SQ Sequence 20 BP; 1 A; 12 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 2.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 8.8;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 230 CGGACGCGAGCGAGTGGG 249  
|||||  
DB 20 CGGACGCGAGCGAGTGGG 1

RESULT 9  
AAF27092/c  
ID AAF27092 standard; DNA; 20 BP.  
AC AAF27092;  
XX  
XX 06-APR-2001 (first entry)  
XX Human MEKK1 phosphothioate antisense oligonucleotide, SEQ ID NO:14.  
XX Human MEKK1; mitogen-activated protein kinase kinase 1;  
XX MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;  
XX apoptosis signal regulation; programmed cell death;  
XX serine/threonine kinase; MAP kinase cascade; JNK/SAPK;  
XX Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;  
XX NF-kappa-B-mediated transcription regulation; expression inhibition;  
XX antisense; hyperproliferative disorder; cancer; inflammation;  
XX phosphothioate; ss.  
XX Homo sapiens.  
XX  
XX US6168950-B1.  
XX  
XX 02-JAN-2001.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX 23-JUL-1999; 99US-00359756.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Monia BP, Cowser LM, Gaarde W, Ward DT;  
XX WPI; 2001-122264/13.  
XX  
XX New antisense compound targeting nucleic acid encoding human mitogen-  
PT activated protein kinase kinase 1 (MEKK1), useful for treating diseases  
PT or conditions associated with MEKK1 expression, or preventing

```
PT inflammation or tumor formation.
XX
PS Claim 14; Col 39; 35pp; English.
XX
CC Sequences AAF27086-AAF27125 represent phosphorothioate antisense
CC oligonucleotides targetted to the human MEK1 gene, which inhibit its
CC expression. The antisense oligonucleotides were designed to target
CC different regions of the human MEK1 RNA, and were analysed for their
CC effect on MEK1 mRNA levels by quantitative real-time PCR. MEK1 (also
CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1
CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase
CC which mediates cellular responses to mitogenic stimuli, being involved in
CC JNK/SAPK (Jun N-terminal kinase/stress- activated protein kinase) MAP
CC kinase cascades. MEK1 regulates signalling events associated with
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been
CC associated with the development of hyperproliferative disorders such as
CC cancer. Specifically, MEK1 lies directly downstream of Bcl-2 in an
CC apoptotic signalling cascade, and plays a critical role in the control of
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic
CC cascade. The oligonucleotides of the invention are useful for diagnosis,
CC prevention and treatment of conditions associated with MEK1 expression,
CC such as inflammation, and cancer and other hyperproliferative disorders
XX
SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 444 AGAACTCTCAAGGGTTGC 463
DB 20 AGAACTCTCAAGGGTTGC 1

RESULT 10
AAF27087/c
ID AAF27087 standard; DNA; 20 BP.
XX
AC AAF27087;
XX
DT 06-APR-2001 (first entry)
XX
DE Human MEK1 phosphorothioate antisense oligonucleotide, SEQ ID NO:9.
XX
KW MEK1; mitogen-activated protein kinase kinase 1;
KW kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;
KW apoptosis signal regulation; programmed cell death;
KW serine/threonine kinase; MAP kinase cascade; JNK/SAPK;
KW Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;
KW NF-kappa-B-mediated transcription regulation; expression inhibition;
KW antisense; hyperproliferative disorder; cancer; inflammation;
KW phosphorothioate; ss.
XX
OS Homo sapiens.
XX
PN US6168950-B1.
XX
PD 02-JAN-2001.
XX
PF 23-JUL-1999; 99US-00359756.
XX
PR 23-JUL-1999; 99US-00359756.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Monia BP, Cowsett LM, Gaarde W, Ward DT;
XX
DR WPI; 2001-122264/13.
XX
PT New antisense compound targeting nucleic acid encoding human mitogen-
PT activated protein kinase kinase 1 (MEK1), useful for treating diseases
PT or conditions associated with MEK1 expression, or preventing
PT inflammation or tumor formation.

inflammation or tumor formation.
XX
PS Claim 14; Col 39; 35pp; English.
XX
CC Sequences AAF27086-AAF27125 represent phosphorothioate antisense
CC oligonucleotides targetted to the human MEK1 gene, which inhibit its
CC expression. The antisense oligonucleotides were designed to target
CC different regions of the human MEK1 RNA, and were analysed for their
CC effect on MEK1 mRNA levels by quantitative real-time PCR. MEK1 (also
CC known as mitogen-activated protein kinase kinase 1, MEK kinase 1
CC and MAP/ERK kinase 1) is a dual-specific serine/threonine kinase
CC which mediates cellular responses to mitogenic stimuli, being involved in
CC JNK/SAPK (Jun N-terminal kinase/stress- activated protein kinase) MAP
CC kinase cascades. MEK1 regulates signalling events associated with
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been
CC associated with the development of hyperproliferative disorders such as
CC cancer. Specifically, MEK1 lies directly downstream of Bcl-2 in an
CC apoptotic signalling cascade, and plays a critical role in the control of
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic
CC cascade. The oligonucleotides of the invention are useful for diagnosis,
CC prevention and treatment of conditions associated with MEK1 expression,
CC such as inflammation, and cancer and other hyperproliferative disorders
XX
SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 444 AGAACTCTCAAGGGTTGC 463
DB 20 AGAACTCTCAAGGGTTGC 1

RESULT 11
AAx80919
ID AAx80919 standard; DNA; 21 BP.
XX
AC AAx80919;
XX
DT 03-NOV-1999 (first entry)
XX
DE Sense primer-3 for amplifying human MEK1 cDNA.
XX
KW Sense primer; amplify; antisense primer; PCR; cDNA;
KW human Mitogen ERK Kinase Kinase 1; MEK1; ss.
XX
OS Synthetic.
XX
PN WO9941385-A1.
XX
PD 19-AUG-1999.
XX
PF 12-FEB-1999; 99WO-US002974.
XX
PR 13-FEB-1998; 98US-00023130.
XX
PA (CADU-) CADUS PHARM CORP.
XX
PI Johnson GL;
XX
DR WPI; 1999-508649/42.
XX
PT A new mammalian serine-threonine protein kinase for treating disorder
PT characterized by aberration of the enzyme gene.
XX
PS Example 1; Page 55; 149pp; English.
XX
CC The present sequence is a sense primer used in conjunction with an
CC antisense primer in PCR, to amplify the region from bases 580-1310 of
CC cDNA encoding human Mitogen ERK Kinase Kinase 1 (MEK1)
XX
SQ Sequence 21 BP; 4 A; 5 C; 9 G; 3 T; 0 U; 0 Other;
```

```
Query Match      1.8%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 25;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      527 CAGCCTGGAAGCAGCAATGGT 547
Db      1 CGGCTGGAAGCAGCAGTGCT 21

RESULT 12
AAZ25081
ID      AAZ25081 standard; DNA; 21 BP.
AC      AAZ25081;
XX
XX
DT      09-DEC-1999 (first entry)
DE
DE      Human MEKK1 PCR primer SEQ ID NO:20.
XX
XX      MEKK1; MEKK2; MEKK3; mitogen-activated protein kinase; MAPK; ERK;
KW      extracellular regulated kinase; signal transduction; regulation;
KW      MAPK/ERK; MEK; MKK; inflammation; cellular proliferation;
KW      differentiation; development; cell death; PCR primer; ss.
XX
XX      Synthetic.
OS
OS      Homo sapiens.
XX
XX      WO9947686-A2.
PN
XX
XX      23-SEP-1999.
PD
XX
XX      15-MAR-1999; 99WO-US005556.
PF
XX
XX      16-MAR-1998; 98US-0078153P.
PR
XX      04-SEP-1998; 98US-0099165P.
XX
XX      (CADU-) CADUS PHARM CORP.
PA
XX
XX      Johnson GL;
PI
XX
XX      WPI; 1999-571843/48.
DR
XX
XX      New human MEKK polynucleotides and polypeptides, used for regulating
PT      signal transduction in cells.
PT
XX
XX      Example 1; Page 62; 159pp; English.
PS
XX
XX      The present invention describes human mitogen-activated protein kinase/
CC      extracellular response kinase (MAPK/ERK) kinase kinase (MEKK),
CC      specifically designated MEKK1, MEKK2 and MEKK3. The MEKK proteins are
CC      used to modulate and regulate signal transduction in cells, as well as
CC      for regulation of gene transcription in a cell encoding MEKK, where the
CC      cell is involved in inflammation, regulation of cellular proliferation
CC      and differentiation, regulation of development, regulation of cell death
CC      or regulation of inflammation. They are also used to prepare antibodies.
CC      MEKK polynucleotides can be used to produce the protein recombinantly and
CC      as a source of probes and primers. The present sequence represents a PCR
CC      primer for human MEKK1, which is used in an example from the present
CC      invention
CC
XX      Sequence 21 BP; 4 A; 5 C; 9 G; 3 T; 0 U; 0 Other;
SQ

Query Match      1.8%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 25;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      527 CAGCCTGGAAGCAGCAATGGT 547
Db      1 CGGCTGGAAGCAGCAGTGCT 21

RESULT 13
ABL56936/c
ID      ABL56936 standard; DNA; 21 BP.
AC      ABL56936;
XX
XX
DT      04-JUL-2002 (first entry)
DE
DE      Rabies surface glycoprotein 1 expression cassette PCR primer 1.
XX
XX      Expression cassette; polypeptide IX; PIX; human adenovirus; rabies;
KW      adenoviral expression vector; adenovirus; glycoprotein; gpi; PCR; primer;
KW      ss.
XX
XX      Synthetic.
OS
XX      WO200222800-A2.
PN
XX
XX      21-MAR-2002.
PD
XX
XX      14-SEP-2001; 2001WO-EP010654.
PF
XX
XX      15-SEP-2000; 2000DE-01045687.
PR
XX      (MICR-) MICROMUN PRIVATES INST MIKROBIOLOGISCHE.
PA
XX
XX      Doehner L, Becher D, Salim S;
PI
XX
XX      WPI; 2002-362344/39.
DR
XX
XX      Expression cassette containing adenoviral PIX regulatory sequences,
PT      useful for preparing new adenoviral vector for large scale protein
PT      expression.
XX
XX      Example 4; Page 20; 54pp; German.
PS
XX
XX      The invention relates to an expression cassette (EC1), comprising the
CC      regulatory elements (i) of the polypeptide IX (PIX) gene of human
CC      adenovirus of group C and a foreign DNA coding sequence (ii). EC1 is used
CC      to prepare adenoviral expression vectors for protein production. EC1
CC      produce expression systems with high expression rates (associated with
CC      use of (i)) and allow simple production of genetically modified
CC      adenovirus without requiring ligation. The present sequence is that of a
CC      PCR primer used to generate a rabies surface glycoprotein 1 expression
CC      cassette used to exemplify the invention
CC
XX      Sequence 21 BP; 3 A; 10 C; 7 G; 1 T; 0 U; 0 Other;
SQ

Query Match      1.7%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      112 TGGCGGCGCGCGCAGCTGC 130
Db      19 TGGCGGCGCGCGCTGCTGC 1

RESULT 14
AAT86501/c
ID      AAT86501 standard; DNA; 20 BP.
XX
XX      AAT86501;
AC
XX
XX      12-MAR-1998 (first entry)
DT
XX
XX      S-adenosylmethionine decarboxylase antisense oligonucleotide #2.
DE
XX
XX      S-adenosylmethionine decarboxylase; SAMDC; antisense oligonucleotide;
KW      antitumour; diagnosis; phosphorothioate; psoriasis; spermine; spermidine;
KW      ss.
XX
XX      Synthetic.
OS
XX      Homo sapiens.
OS
XX
XX      Key Location/Qualifiers
FH
```

```
FT modified_base 1. .20
FT /tag= a
FT /note= "nucleotides are bonded via phosphorothioate
FT linkages"
XX
XX WO9605298-A1.
XX
XX 22-FEB-1996.
XX
XX 27-JUL-1995; 95WO-EP002985.
XX
XX 09-AUG-1994; 94US-00287753.
XX
XX (CIBA ) CIBA GEIGY AG.
XX
XX Mett H, Haner R, Dean NM;
XX
XX WPI; 1996-139694/14.
XX
XX New oligo:nucleotide derivs. specific for S-adenosyl:methionine
PT decarboxylase related nucleic acid - useful as anti:sense inhibitors of
PT this enzyme, esp. for treatment of tumours but also as hybridisation
PT probes for diagnosis.
XX
XX Claim 11; Page 45; 81pp; English.
XX
XX This sequence represents a phosphorothioate analogue of an antisense
CC oligonucleotide which targets the 5' untranslated region of S-
CC adenosylmethionine decarboxylase (SAMDC) around nucleotides at positions
CC -80 to -61. Antisense oligonucleotide analogues (AAT86500-14) which
CC target the SAMDC gene are used to diagnose conditions associated with
CC expression of SAMDC by specifically hybridising to RNA or DNA derived
CC from the SAMDC gene. These antisense molecules are useful for therapeutic
CC modulation (especially inhibition) of SAMDC synthesis, particularly to
CC treat tumours (e.g. leukaemia, prostatic carcinoma, colon or brain
CC tumours, but especially bladder cancer), but also other hyper-
CC proliferative diseases such as psoriasis. They cause tumour regression
CC and prevent establishment/growth of (micro)metastases. Inhibition of
CC SAMDC reduces the level of polyamines (spermine and spermidine in cells),
CC resulting in cytostasis and possibly apoptosis
XX
XX Sequence 20 BP; 0 A; 13 C; 6 G; 1 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 39;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 114 CGCGCGCGCGAGTGGC 131
DB 20 CGCGCGCGCGAGTGGC 3
RESULT 15
AAT38134
ID AAT38134 standard; DNA; 20 BP.
XX
XX AAT38134;
AC
XX
XX 13-NOV-1996 (first entry)
DT
XX
XX Primer for LAMC2 gamma chain amplification.
DE
XX
XX kalinin; laminin; epidermolysis bullosa; junctional; probe; detection;
KW inhibit; monitor; malignancy; primer; PCR; ss.
KW
XX Synthetic.
OS
XX
XX WO9610646-A1.
PN
XX
XX 11-APR-1996.
PD
XX
XX 04-OCT-1995; 95WO-EP003918.
PF
XX
```

```
PR 04-OCT-1994; 94US-00317450.
XX
XX (TRYG/) TRYGGVASON K.
XX
XX Tryggvason K, Kallunki P, Pyke C;
XX
XX WPI; 1996-209366/21.
XX
XX Detection of kalinin or laminin 5 expression in cells - useful to detect,
PT monitor and inhibit the invasive growth of cell in tissue, partic.
PT malignant tissue.
XX
XX Example 1; Page 8; 37pp; English.
XX
XX AAT38133-43 are primers for the amplification of introns 8 and 16 of the
CC gamma-2 chain gene LAMC2 (kalinin/laminin 5 gamma-2). The gamma-2 chain
CC is of importance to patients suffering from epidermolysis bullosa, esp.
CC the junctional form (JEB). PCR products were analysed and mutations
CC correlating with JEB can be identified. Probes and antisense gamma-2
CC sequences derived from this sequence can be used to detect, monitor and
CC inhibit the invasive growth of cells in tissue, partic. malignant tissue
XX
XX Sequence 20 BP; 7 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 39;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 618 GAATCACTTAGCAGCTGA 635
DB 1 GAATCACTTAGCAGCTGA 18
RESULT 16
AAL42900
ID AAL42900 standard; DNA; 20 BP.
XX
XX AAL42900;
AC
XX
XX 05-AUG-2002 (first entry)
DT
XX
XX LAMC2 gene PCR primer 2.
DE
XX
XX LAMC2; PCR; primer; ss; cancer; laminin gamma-2 chain inhibition;
KW carcinogen inhibition; anti-gamma-2 chain antibody;
KW epithelial cell adhesion; laminin-5.
XX
XX Unidentified.
OS
XX
XX US2002052307-A1.
PN
XX
XX 02-MAY-2002.
PD
XX
XX 08-JAN-2001; 2001US-00756071.
PF
XX
XX 04-OCT-1994; 94US-00317450.
XX
XX 18-FEB-1997; 97US-00800593.
PR
XX
XX 07-JAN-2000; 2000US-0175005P.
PR
XX
XX 15-SEP-2000; 2000US-00663147.
PR
XX
XX (TRYG/) TRYGGVASON K.
PA
XX
XX (KALL/) KALLUNKI P.
PA
XX
XX (PYKE/) PYKE C.
XX
XX Tryggvason K, Kallunki P, Pyke C;
PI
XX
XX WPI; 2002-434824/46.
XX
XX Modulating laminin 5 gamma 2 chain interactions of invasive carcinogens
PT for treating cancers and promoting attachment of cultured cells in vitro.
XX
XX Example 1; Page 6; 51pp; English.
XX
```





experimental allergic encephalomyelitis.

Synthetic.

WO9212996-A2.

06-AUG-1992.

21-JAN-1992; 92WO-US000482.

22-JAN-1991; 91US-00644611.

(IMMU-) IMMUNE RESPONSE CORP.

Howell MD, Brostoff SW, Carlo DJ;

WPI; 1992-284600/34.

Treatment of auto-immune diseases e.g. rheumatoid arthritis - using vaccine contg. T-cell receptors from surface of T-cells which mediate the diseases.

Example 10; Page 48; 87pp; English.

This sequence represents a PCR primer used to amplify the T cell receptor beta chain genes in a two stage amplification reaction with nested pairs of primers. See also AAQ27310-7. (Updated on 25-MAR-2003 to correct PN field.)

Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 1.6%; Score 16; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 37;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 CTGCTGAGCAGCGC 175

Db 16 CTGCTGAGCAGCGC 1

RESULT 20

AAQ46300/c

ID AAQ46300 standard; DNA; 18 BP.

XX AC AAQ46300;

XX DT 25-MAR-2003 (revised)

XX DT 08-DEC-1993 (first entry)

XX DE Primer Cbeta-int.

XX KW CDR; T-cell receptor; TCR; vaccine; polymerase chain reaction; PCR;

XX KW amplification; ss.

XX OS Synthetic.

XX PN WO9312814-A2.

XX PD 08-JUL-1993.

XX PF 21-DEC-1992; 92WO-US011159.

XX PR 24-DEC-1991; 91US-00813867.

XX PA (IMMU-) IMMUNE RESPONSE CORP.

XX PI Howell MD, Brostoff SW, Carlo DJ;

XX WPI; 1993-227059/28.

Vaccine comprising T cell receptor from T cells which mediate pathology - for treating and preventing T cell lymphoma, rheumatoid arthritis, auto-immune diseases etc.

XX

PS Example 10C; Fig 2B; 79pp; English.

XX

CC TCR beta-chain genes were amplified with several combinations of the primers given in AAQ46294-301. The Vbetalemer primer is a degenerate Vbeta primer (n=265) which is predicted to bind 85% of human TCR beta-chain genes at all 16 residues and 95% at 15 residues. This primer has been used to amplify TCR beta-chains from more than 25 different human T-cell clones, lines or primary tissue preps. A spectrum of Vbeta genes has been sequenced from these amplified DNAs, arguing against a significant bias of the primer for certain Vbeta families. Thus, PCR amplification with the Vbetalemer primer facilitates analysis of T-cell populations for which a priori knowledge of Vbeta gene usage is unavailable. (Updated on 25-MAR-2003 to correct PN field.)

XX SQ Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 1.6%; Score 16; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 37;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 CTGCTGAGCAGCGC 175

Db 16 CTGCTGAGCAGCGC 1

RESULT 21

AAQ99419/c

ID AAQ99419 standard; DNA; 18 BP.

XX AC AAQ99419;

XX DT 28-FEB-1996 (first entry)

XX DE Human T cell receptor beta-chain constant region antisense primer.

XX KW Human T cell receptor; TCR; beta-chain constant region; psoriasis;

XX KW prevention; reduction; antisense primer; ss.

XX OS Synthetic.

XX PN WO9519375-A1.

XX PD 20-JUL-1995.

XX PF 13-JAN-1995; 95WO-US000658.

XX PR 14-JAN-1994; 94US-00182967.

XX PA (IMMU-) IMMUNE RESPONSE CORP.

XX PI Chang JCC, Brostoff SW, Carlo DJ;

XX WPI; 1995-263831/34.

XX PT Prevention or reduction in the severity of psoriasis - by preventing the attachment of a psoriasis associated T cell receptor to its binding partner.

XX PS Example 1; Page 21; 46pp; English.

XX CC AAQ99419 is an antisense primer for the human T cell receptor (TCR) beta-chain constant region. CDR 2 peptides from the beta-chain variable regions of hTCR can be used to prevent or reduce psoriasis, by preventing the attachment of a psoriasis associated TCR to its binding partner

XX SQ Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 1.6%; Score 16; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 37;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 CTGCTGAGCAGCGC 175

```

Db      16 CTGCGCTGAGCAGCGC 1
RESULT 22
AAV64294/c
ID      AAV64294 standard; DNA; 18 BP.
XX
XX
AC      AAV64294;
XX
XX      25-JAN-1999 (first entry)
XX
DE      Human T cell receptor beta chain PCR primer C beta int.
XX
XX      T cell receptor; human; TCR; beta chain; detection; prevention;
KW      treatment; rheumatoid arthritis; autoaggressive; immune response;
KW      PCR primer; ss.
XX
XX      Homo sapiens.
OS
OS      Synthetic.
XX
XX      US5837246-A.
PN
XX
XX      17-NOV-1998.
PD
XX
XX      20-JAN-1995; 95US-00376049.
PF
XX
XX      21-MAR-1989; 89US-00326314.
PR
XX      18-JUL-1989; 89US-00382085.
PR
XX      18-JUL-1989; 89US-00382086.
PR
XX      30-MAY-1990; 90US-00530229.
PR
XX      28-JAN-1993; 93US-00010483.
PR
XX
XX      (IMMU-) IMMUNE RESPONSE CORP.
PA
XX
XX      Howell MD, Brostoff SW, Carlo DJ;
PI
XX
XX      WPI; 1999-023376/02.
XX
XX      New immunogenic peptides for treating rheumatoid arthritis - has amino
PT      acid sequence for T cell receptor present of surface of autoaggressive T
PT      cells mediating rheumatoid arthritis.
XX
XX      Example IX; Fig 1B; 15pp; English.
XX
XX      AAV64289-V64295 are PCR primers used in the amplification of human T cell
CC      receptor (TCR) beta chain genes. These genes are used in a method for the
CC      detection, prevention and treatment of rheumatoid arthritis (RA). The
CC      method involves an amino acid sequence for a TCR which is present on the
CC      surface of autoaggressive T cells mediating rheumatoid arthritis where
CC      the peptide induces an immune response against the autoaggressive T cell
CC      that reduces the severity of RA
XX
XX      Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      160 CTGCGCTGAGCAGCGC 175
Db      16 CTGCGCTGAGCAGCGC 1

RESULT 23
AAF85282/c
ID      AAF85282 standard; DNA; 18 BP.
XX
XX      AAF85282;
AC
XX
XX      23-JUL-2001 (first entry)
DT
XX
XX      PCR primer used to amplify T cell receptor b-chain genes.
DE

```

```

XX
KW      Vbeta14; Vbeta17; T cell; rheumatoid arthritis; multiple sclerosis;
KW      T cell-mediated pathology; autoimmune disease; PCR primer; ss.
XX
XX      Homo sapiens.
OS
XX      US6221352-B1.
PN
XX      24-APR-2001.
PD
XX
XX      06-JUN-1995; 95US-00471209.
PF
XX
XX      21-MAR-1989; 89US-00326314.
PR
XX      18-JUL-1989; 89US-00382085.
PR
XX      18-JUL-1989; 89US-00382086.
PR
XX      30-MAY-1990; 90US-00530229.
PR
XX      22-JAN-1991; 91US-00644611.
PR
XX      24-DEC-1991; 91US-00813867.
PR
XX      18-JUL-1994; 94US-00276776.
PR
XX      (IMMU-) IMMUNE RESPONSE CORP.
PA
XX
XX      Howell MD, Brostoff SW, Carlo DJ;
PI
XX
XX      WPI; 2001-315571/33.
XX
XX      Preventing proliferation of Vbeta14 or 17-expressing T cells, for
PT      preventing, treating T-cell mediated pathologies such as autoimmune
PT      diseases, by administering antibody that binds to Vbeta region of T cell
PT      receptor.
XX
XX      Example 10; Col 23; 40pp; English.
XX
XX      The specification describes a method for preventing the proliferation of
CC      Vbeta14 or Vbeta17-expressing T cells in a human individual having
CC      rheumatoid arthritis. The method comprises administering a cytotoxic or
CC      cytostatic agent which comprises an antibody selectively binding to
CC      Vbeta14 or Vbeta17 expressed by the T cells. The method is useful for
CC      preventing the proliferation of T cells, which in turn is useful for
CC      preventing, ameliorating or treating T cell-mediated pathologies of
CC      autoimmune diseases, such as rheumatoid arthritis and multiple sclerosis.
CC      PCR primers AAF85275-83 were used to amplify T cell receptor beta-chain
CC      gene, in the course of the invention
XX
XX      Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      160 CTGCGCTGAGCAGCGC 175
Db      16 CTGCGCTGAGCAGCGC 1

RESULT 24
AAF27155/c
ID      AAF27155 standard; DNA; 18 BP.
XX
XX      AAF27155;
AC
XX
XX      06-APR-2001 (first entry)
DT
XX
XX      Human TCR beta-chain PCR primer, C-beta-int.
DE
XX
XX      T-cell receptor; TCR; beta-chain; V-beta-17; rheumatoid arthritis;
KW      autoimmune disease; vaccine; antibody; targeting moiety; drug delivery;
KW      antirheumatic; antiarthritic; PCR primer; ss.
XX
XX      Homo sapiens.
OS
XX      US6159470-A.
PN
XX

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```
PD 12-DEC-2000.
XX
XX
XX 05-JUN-1995; 95US-00464506.
XX
XX 21-MAR-1989; 89US-00326314.
XX 18-JUN-1989; 89US-00382085.
XX 18-JUL-1989; 89US-00382086.
XX 30-MAY-1990; 90US-00530229.
XX 28-JAN-1993; 93US-00010483.
XX 20-JAN-1995; 95US-00376049.
XX
XX (IMMU-) IMMUNE RESPONSE CORP.
XX
XX Howell MD, Brostoff SW, Carlo DJ;
XX WPI; 2001-090268/10.
XX
XX Treating rheumatoid arthritis in humans involves binding Vbeta17, a
PT variable chain region of T cell receptor in the individual with antibody
PT reactive with Vbeta17, so as to kill or inhibit proliferation of T cells.
XX
XX Example IX; Fig 1B; 16pp; English.
XX
XX The invention relates to a method of treating rheumatoid arthritis in
CC human patients by specifically targeting T-cells expressing the T-cell
CC receptor (TCR) V-beta-17 beta-chain variable region (AAB60303) with a
CC cytotoxic or cytostatic agent to inhibit the proliferation of or to kill
CC the T-cells. An antibody specific for V-beta-17 is used as the targeting
CC moiety, and is attached to the therapeutic moiety (e.g., a radioactive
CC moiety, a chemotherapeutic moiety or a chemotoxic moiety). The V-beta-17
CC antibody may also be used in the detection and prevention of rheumatoid
CC arthritis. The invention is based on the discovery that a specific TCR
CC beta-chain variable region, V-beta-17, is central to the pathogenesis of
CC rheumatoid arthritis. The TCR beta-chain is also involved in other
CC autoimmune diseases. In particular, the TCR beta-chain VDJ junction
CC regions of myelin basic protein (MBP)-specific T-cells have significant
CC sequence similarity (see AAB60311, AAB60312). Such MBP-specific T-cells
CC are involved in the pathogenesis of multiple sclerosis in humans and in
CC experimental allergic encephalitis (EAE), an animal model of autoimmune
CC disease) in mice and rats. This means that antibodies specific to this
CC region can be used as targeting moieties in therapeutic applications.
CC The present sequence represents a human TCR beta-chain PCR primer used in
XX an exemplification of the invention
XX
XX Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 160 CTGCTGAGCAGCGC 175
Db 16 CTGCTGAGCAGCGC 1
XX
RESULT 25
AAQ52159
ID AAQ52159 standard; RNA; 19 BP.
XX
XX AAQ52159;
XX
XX 25-MAR-2003 (revised)
DT 26-MAY-1994 (first entry)
XX
XX Colon carcinoma specific mRNA ribozyme cleavable nucleotide (18).
XX
XX Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;
XX resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;
XX actinomycin D; vinblastine; small intestine; kidney; adrenal gland;
XX adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;
XX human; chronic myelogenous leukemia; CML; follicular lymphoma;
XX B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;
XX neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;
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KW hairpin; hepatitis delta virus; group I intron; RNaseP; leukaemia; ss.
XX Homo sapiens.
XX WO9323057-A1.
XX
XX 25-NOV-1993.
XX
XX 13-MAY-1993; 93WO-US0004573.
XX
XX 14-MAY-1992; 92US-00882822.
XX 14-MAY-1992; 92US-00882885.
XX 26-AUG-1992; 92US-00936110.
XX 26-AUG-1992; 92US-00936421.
XX 26-AUG-1992; 92US-00936422.
XX 26-AUG-1992; 92US-00936531.
XX 26-AUG-1992; 92US-00936532.
XX 07-DEC-1992; 92US-00987131.
XX 19-JAN-1993; 93US-00006122.
XX 19-JAN-1993; 93US-00008910.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Thompson JD, Draper KG;
XX WPI; 1993-386203/48.
XX
XX New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated
PT with tumours or mRNA expressed from gene encoding multiple drug
PT resistance.
XX
XX Claim 3; Fig 9; 69pp; English.
XX
XX The sequences given in AAQ51825-2266 represent areas of mRNAs which are
CC associated with development or maintenance of chronic myelogenous
CC leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or acute
CC lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic
CC leukemia, breast cancer, colon carcinoma, neuroblastoma and lung cancer.
CC The full length mRNAs containing these target sequences, encode aberrant
CC cellular proteins which are able to control cellular proliferation and
CC are directly linked to a leukemic phenotype. These target sequences are
CC identified by the ribozyme of the invention. The ribozymes is formed in a
CC hammerhead motif, but may also be formed in the motif of a hairpin,
CC hepatitis delta virus, group I intron or RNaseP-like RNA. These ribozymes
CC may be used to inhibit the development or expression of a transformed
CC phenotype in man and other animals by modulating expression of the
CC corresponding gene. Cleavage of target mRNAs expressed in pre-neoplastic
CC and transformed cells elicits inhibition of the transformed state.
CC Multiple drug resistance (mdr-1) mRNA specific ribozymes remove the
CC mechanism of drug resistance used by transformed cells and thus enhances
CC drug therapies for tumours. The ribozymes may also be used to study
CC genetic drift and mutations within cells. (Updated on 25-MAR-2003 to
CC correct PN field.)
XX
XX Sequence 19 BP; 3 A; 5 C; 11 G; 0 T; 0 U; 0 Other;
SQ
Query Match 1.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 44;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 113 GCGCGCGCGCGCAGCTGCG 131
Db 1 GCGCGCGCGCAGCAGCG 19
XX
RESULT 26
AAZ70920
ID AAZ70920 standard; DNA; 19 BP.
XX
XX AAZ70920;
XX
XX 10-SEP-2001 (first entry)
DT
XX
```

DE Human biallelic marker upstream amplification primer SEQ ID NO:5276.  
 XX Human genome; biallelic marker; high density disequilibrium map;  
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;  
 KW haplotyping; hybridisation; identification; characterisation;  
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;  
 KW diagnosis; ss.  
 XX Homo sapiens.  
 OS  
 XX W09954500-A2.  
 PN  
 XX 28-OCT-1999.  
 PD  
 XX  
 XX 21-APR-1999; 99WO-IB000822.  
 PF  
 XX  
 XX 21-APR-1998; 98US-0082614P.  
 PR  
 XX 23-NOV-1998; 98US-0109732P.  
 PR  
 XX (GEST ) GENSET.  
 PA  
 XX Cohen D, Blumenfeld M, Chumakov I;  
 PI WPI; 2000-013267/01.  
 XX  
 XX Novel biallelic markers used to construct a high density disequilibrium  
 XX map of the human genome.  
 XX  
 XX Claim 8; Page 1356; 2745pp; English.  
 PS  
 XX AA265654 to AA269578 represent human biallelic markers from the present  
 CC invention, which contain a polymorphic base at position 24 of their  
 CC nucleotide sequences. AA269579 to AA277440 represent amplification  
 CC primers for the biallelic markers. The biallelic markers of the invention  
 CC have a variety of uses: they can be used for high density mapping of the  
 CC human genome, and in complex association studies and haplotyping studies  
 CC which are useful in determining the genetic basis for disease states.  
 CC Compositions and methods of the invention can also be useful for the  
 CC identification of the targets for the development of pharmaceutical  
 CC agents and diagnostic methods, as well as the characterisation of the  
 CC differential efficacious responses to and side effects from  
 CC pharmaceutical agents acting on a disease as well as other treatment.  
 CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and  
 CC 3367. The SEQ ID NOS actually given a sequence in the Sequence Listing from the  
 CC present invention  
 XX  
 XX Sequence 19 BP; 11 A; 1 C; 7 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.6%; Score 15.8; DB 1; Length 19;  
 Best Local Similarity 89.5%; Pred. No. 44;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 745 GGAGTAAGGAGAAAAGAG 763  
 DB 1 GGAAACAGGAGAAAAGAG 19  
 RESULT 27  
 AA47686  
 ID AA47686 standard; DNA; 20 BP.  
 XX  
 XX AA47686;  
 AC  
 XX 20-NOV-1998 (first entry)  
 DT  
 XX Unmethylated CpG dinucleotide 2001.  
 DE  
 XX Unmethylated CpG dinucleotide; immune response; bacterial meningitis;  
 KW natural killer cell activation; NK cell; Th2 response; neonatal sepsis;  
 KW pulmonary disorder; asthma; environmentally induced airway disease;  
 KW bacterial infection; endotoxaemia; therapy; cystic fibrosis;  
 KW inflammatory bowel disease; ss.  
 XX

OS Synthetic.  
 XX WO9837919-A1.  
 PN  
 XX 03-SEP-1998.  
 PD  
 XX 25-FEB-1998; 98WO-US003678.  
 PF  
 XX 28-FEB-1997; 97US-0039405P.  
 PR  
 XX (IOWA ) UNIV IOWA RES FOUND.  
 PA  
 XX Schwartz DA, Krieg AM;  
 PI WPI; 1998-480941/41.  
 DR  
 XX Use of nucleic acids containing an unmethylated CpG - for treating a  
 PT subject having or at risk of having an acute decrement in air flow or  
 PT inhibiting an inflammatory response.  
 PT  
 XX Claim 35; Page 27; 65pp; English.  
 PS  
 XX This sequence represents an unmethylated CpG dinucleotide, and can be  
 CC used in the method of the invention. The method is for treating a subject  
 CC having, or at risk of having an acute decrement in air flow, comprising  
 CC administering a nucleic acid sequence containing at least one  
 CC unmethylated CpG. The nucleic acids containing an unmethylated CpG  
 CC dinucleotide affect an immune response in a subject by activating natural  
 CC killer cells (NK) or redirecting a subject's immune response from a Th2  
 CC to a Th1 response by inducing monocytic and other cells to produce Th1  
 CC cytokines. They can be used to treat pulmonary disorders having an  
 CC immunologic component, such as asthma or environmentally induced airway  
 CC disease. They can also be used to treat diseases associated with Gram-  
 CC positive bacterial infections or endotoxaemia including bacterial  
 CC meningitis, neonatal sepsis, cystic fibrosis, inflammatory bowel disease  
 CC and liver cirrhosis, Gram-negative pneumonia, Gram-negative abdominal  
 CC abscess, haemorrhagic shock, disseminated intravascular coagulation, or  
 CC an inflammatory response to lipopolysaccharide  
 XX  
 XX Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.6%; Score 15.8; DB 1; Length 20;  
 Best Local Similarity 89.5%; Pred. No. 49;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 113 GGCGGGCGGGCGGAGCTGCG 131  
 DB 1 GGCGGGCGGGCGGGCGGCG 19  
 RESULT 28  
 AA47423  
 ID AA47423 standard; DNA; 20 BP.  
 XX  
 XX AA47423;  
 AC  
 XX 20-MAR-2003 (revised)  
 DT  
 XX 15-MAR-1999 (first entry)  
 DT  
 XX CpG-N motif O-ODN 2001 DNA.  
 DE  
 XX CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN;  
 KW viral antigen; bacterial antigen; parasite; therapeutic; growth factor;  
 KW toxin; tumour suppressor; cytokine; apoptotic protein; interferon;  
 KW hormone; clotting factor; ligand; receptor; oligodeoxynucleotide; ss.  
 XX  
 XX Synthetic.  
 OS  
 XX WO9852581-A1.  
 PN  
 XX 26-NOV-1998.  
 PD  
 XX 20-MAY-1998; 98WO-US010408.  
 PF

XX 20-MAY-1997; 97US-0047209P.  
 PR 20-MAY-1997; 97US-0047233P.  
 XX (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST.  
 PA (IOWA ) UNIV IOWA RES FOUND.  
 PA (QIAG-) QIAGEN GMBH.  
 XX Davis HL, Krieg AM, Schorr J, Wu T;  
 PI WPI; 1999-059712/05.  
 XX WPI; 1999-059712/05.  
 DR WPI; 1999-059712/05.  
 XX Use of neutralising CpG and stimulating CpG motifs in DNA vectors - for  
 PT enhancing the immunostimulatory effect of an antigen or enhancing the  
 PT expression of a therapeutic polypeptide.  
 XX Example 1; Page 64; 109pp; English.  
 PS Example 1; Page 64; 109pp; English.  
 XX AA74237-V74253 are oligodeoxynucleotide (ODN) primers used to describe a  
 CC method for enhancing the immunostimulatory effect of an antigen encoded  
 CC by nucleic acid contained in a nucleic acid construct. The method  
 CC involves determining the CpG-N and CpG-S motifs present in the construct,  
 CC removing neutralising CpG (CpG-N) motifs and optionally inserting  
 CC stimulatory CpG (CpG-S) motifs in the construct, thereby producing a  
 CC nucleic acid construct having enhanced immunostimulatory efficacy. The  
 CC method can be used for immunisation against viral antigens, e.g. from  
 CC hepatitis B virus (HBV), bacterial antigens or an antigen derived from a  
 CC parasite. They can also be used for expression of a therapeutic  
 CC polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines,  
 CC apoptotic proteins, interferons, hormones, clotting factors, ligands and  
 CC receptors. (Updated on 20-MAR-2003 to correct PA field.)  
 XX Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
 SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 15.8; DB 1; Length 20;  
 Best Local Similarity 89.5%; Pred. No. 49;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 113 GCGCGCGCGCGCGAGCTGCG 131  
 Db 1 GCGCGCGCGCGCGCGCGCG 19  
 RESULT 29  
 ID AAZ75520/c  
 XX AAZ75520 standard; DNA; 20 BP.  
 AC AAZ75520;  
 XX 10-SEP-2001 (first entry)  
 DT Human biallelic marker downstream amplification primer SEQ ID NO:9876.  
 DE Human genome; biallelic marker; high density disequilibrium map;  
 XX genomic map; haplotype; phenotype; polymorphic base; genotyping;  
 KW genotyping; hybridisation; identification; characterisation;  
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;  
 KW diagnosis; ss.  
 XX Homo sapiens.  
 OS Homo sapiens.  
 XX WO9954500-A2.  
 PN 28-OCT-1999.  
 XX 21-APR-1999; 99WO-IB0000822.  
 PF 21-APR-1999; 98US-0082614P.  
 XX 23-NOV-1998; 98US-0109732P.  
 PR (GEST ) GENSET.  
 PA Cohen D, Blumenfeld M, Chumakov I;  
 PI

XX WPI; 2000-013267/01.  
 DR Novel biallelic markers used to construct a high density disequilibrium  
 PT map of the human genome.  
 PT Claim 8; Page 2336; 2745pp; English.  
 XX AA265654 to AA269578 represent human biallelic markers from the present  
 CC invention, which contain a polymorphic base at position 24 of their  
 CC nucleotide sequences. AA269579 to AA277440 represent amplification  
 CC primers for the biallelic markers. The biallelic markers of the invention  
 CC have a variety of uses: they can be used for high density mapping of the  
 CC human genome, and in complex association studies and haplotyping studies  
 CC which are useful in determining the genetic basis for disease states.  
 CC Compositions and methods of the invention can also be useful for the  
 CC identification of the targets for the development of pharmaceutical  
 CC agents and diagnostic methods, as well as the characterisation of the  
 CC differential efficacious responses to and side effects from  
 CC pharmaceutical agents acting on a disease as well as other treatment.  
 CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and  
 CC 3367, are not actually given a sequence in the Sequence Listing from the  
 CC present invention.  
 XX Sequence 20 BP; 3 A; 8 C; 0 G; 9 T; 0 U; 0 Other;  
 SQ Sequence 20 BP; 3 A; 8 C; 0 G; 9 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 15.8; DB 1; Length 20;  
 Best Local Similarity 89.5%; Pred. No. 49;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 428 GTGAGATGGAGATAAAGA 446  
 Db 20 GTGAGATGGAGATAAAGA 2  
 RESULT 30  
 ID AAC83620  
 XX AAC83620 standard; DNA; 20 BP.  
 AC AAC83620;  
 XX 27-FEB-2001 (first entry)  
 DT Human c-fos oligo DNA D4.  
 DE Human; c-fos; fluorescent probe; cytoplasmic nucleic acid detection; ss.  
 KW Homo sapiens.  
 XX Homo sapiens.  
 OS Homo sapiens.  
 PN EP1052293-A1.  
 XX 15-NOV-2000.  
 PD 27-DEC-1999; 99EP-00126030.  
 XX 12-MAY-1999; 99JP-00131838.  
 PR (MOLE-) LAB MOLECULAR BIOPHOTONICS.  
 PA Tsuji A, Hirano M, Koshimoto H, Ishibaashi K;  
 PI WPI; 2001-018062/03.  
 DR Detection of a target nucleic acid in the cytoplasm of a living cell  
 PT comprises using a fluorescent probe linked to a component that cannot  
 PT permeate through the nuclear membrane.  
 XX Example 1; Page 11; 53pp; English.  
 PS The present sequence is a probe which was used in a method for nucleic  
 XX acid detection in cytoplasm. The method comprises detecting a target  
 CC nucleic acid using a fluorescent hybridisation probe linked to a  
 CC component that cannot permeate through the nuclear membrane of the cell.









CC or in combination with any one or more cancer chemotherapeutic agents. It  
CC is also useful for reducing the bcl-2 gene expression or impairing bcl-2  
CC protein function, for ex vivo bone marrow purging, for removing residual  
CC malignant cells from the bone marrow, for inhibiting cancer of neoplastic  
CC cell growth, and for treating autoimmune disease

XX Sequence 20 BP; 2 A; 7 C; 11 G; 0 T; 0 U; 0 Other;

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 49;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGCGCGCGGAGTGGCG 132  
|||||  
Db 2 GCGCGCGCGGAGTGGCG 20

## RESULT 38

ABL54173  
ID ABL54173 standard; DNA; 20 BP.

XX ABL54173;

DT 12-JUL-2002 (first entry)

XX Oligonucleotide.

DE B cell lymphoma/leukaemia-2; bcl-2; oncogene; antisense; lymphoma;  
KW leukaemia; colon carcinoma; rectal carcinoma; pancreatic cancer;  
KW breast cancer; ovarian cancer; prostate cancer; renal cell carcinoma;  
KW hepatoma; bile duct carcinoma; choriocarcinoma; cervical cancer;  
KW testicular cancer; lung carcinoma; bladder carcinoma; melanoma;  
KW head and neck cancer; brain cancer; cytostatic; human; gene therapy; ss.

XX Homo sapiens.

OS Homo sapiens.

XX WO200217852-A2.

PN 07-MAR-2002.

XX 23-AUG-2001; 2001WO-US026414.

XX 25-AUG-2000; 2000US-0227970P.

PR 23-SEP-2000; 2000US-0237009P.

PR 10-NOV-2000; 2000US-00709170.

XX (GENT-) GENTA INC.

XX Warrel RP, Klem RE, Fingert H;

XX WPI; 2002-371796/40.

XX Treating or preventing cancer, tumors and carcinomas, comprises

XX administering B cell lymphoma/leukemia-2 antisense oligonucleotide at

XX high doses for short period for time with one or more cancer

XX therapeutics.

XX Disclosure; Page 64; 64pp; English.

XX The present invention is related to the use of a B cell

XX lymphoma/leukaemia-2 (bcl-2) antisense oligonucleotide, particularly

XX G3139 (see ABL54148), to treat and prevent bcl-2 related disorders.

XX Administration at high doses results in significant therapeutic

XX responses, including low toxicity, high tolerance and prolonged survival.

XX Administration at high doses for short periods of time (less than 14

XX days) also provides significant therapeutic responses in the treatment of

CC lymph nodes, pancreas, hepatobiliary system, or cancer of unknown primary  
CC site, non-Hodgkin's lymphoma, Hodgkin's lymphoma, leukaemia, colon  
CC carcinoma, rectal carcinoma, pancreatic, breast, ovarian, prostate,  
CC cervical, testicular, head and neck or brain cancer, renal cell  
CC carcinoma, hepatoma, bile duct carcinoma, choriocarcinoma, lung  
CC carcinoma, bladder carcinoma and melanoma (all claimed). Note: The  
CC present sequence is given in the Sequence Listing from the present  
CC invention but the Seq ID No. is not referred to within the specification

XX Sequence 20 BP; 2 A; 7 C; 11 G; 0 T; 0 U; 0 Other;

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 49;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGCGCGCGGAGTGGCG 132  
|||||  
Db 2 GCGCGCGCGGAGTGGCG 20

## RESULT 39

ABZ91148  
ID ABZ91148 standard; DNA; 20 BP.

XX ABZ91148;

DT 17-OCT-2003 (first entry)

XX Human oligonucleotide sequence.

DE Human; antisense; lung dysfunction; nasal airway dysfunction;  
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
KW lung inflammation; respiratory disease; ds.

XX Homo sapiens.

OS WO200285308-A2.

XX 31-OCT-2002;

XX 23-APR-2002; 2002WO-US013135.

XX 24-APR-2001; 2001US-0286137P.

XX (EPIG-) EPIGENESIS PHARM INC.

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

XX Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-229219/22.

XX Pharmaceutical composition for treating ailments associated with impaired  
XX respiration, has oligo(s) antisense to specific gene(s) or its  
XX corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
XX ubiquinone.

XX Disclosure; SEQ ID NO 6390; 872pp; English.

XX The invention relates to a novel pharmaceutical composition, which has a  
XX first active agent comprising an oligonucleotide antisense to the  
XX initiation codon, coding region, 5' or 3' end genomic flanking regions,  
XX 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
XX junctions of genes encoding a polypeptide associated with lung and/or  
XX nasal airway dysfunction and a second active agent comprising an  
XX antiinflammatory steroid and ubiquinone. A composition of the invention  
XX has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
XX immunosuppressive, and cytostatic activity. The composition may have a  
XX use in antisense gene therapy. The composition is useful for treating or  
XX preventing a respiratory, lung or malignant disease or condition, also  
XX for enhancing the prophylactic or therapeutic respiratory effect of an

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 49;  
Matches 17; Conservative 0; Mismatches 2; Indels

KW Antimicrobial; cytostatic; immunosuppressive; protein kinase;  
KW prophylactic; therapy; treatment; cancer; autoimmune disease;  
KW pathogenic; oncogenesis; tumorigenesis

XX



XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MCSW/) MCSWIGGEN J.  
PA (CHOW/) CHOWRIRA B M.  
XX  
XX Blatt L, Mcswiggen J, Chowrira BM;  
XX WPI; 2001-607195/69.  
XX  
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
PT constructs, which down regulate expression of a CD20 gene or neurite  
PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
PT central nervous system injury.  
XX  
XX Claim 88; Page 130; 200pp; English.  
XX  
XX The invention relates to a nucleic acid molecule which down regulates  
CC expression of a CD20 gene and a nucleic acid molecule which down  
CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
CC DNzyme) an inozyme (an endolytic nucleic acid cleaving a NYN motif) pr  
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr  
CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
CC the cell and treat a patient having a condition associated with the level  
CC of CD20. The treatment may further comprise the use of one or more  
CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
CC treat central nervous system (CNS) injury and cerebrovascular accident  
CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
CC disease, muscular dystrophy, and/or other neurodegenerative disease  
CC states which respond to the modulation of NOGO expression. The present  
CC sequence is an amberzyme molecule of the invention  
XX  
SQ Sequence 17 BP; 1 A; 7 C; 9 G; 0 T; 0 U; 0 Other;  
Query Match 1.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 41;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 111 CTGGCGGGCGGGCGAGC 127  
Db 1 CCGGCGGGCGGGCGAGC 17  
RESULT 45  
ABK02338  
ID ABK02338 standard; RNA; 17 BP.  
XX  
XX AC ABK02338;  
XX  
XX DT 12-MAR-2002 (first entry)  
XX  
XX DE Human NOGO Amberzyme #10.  
XX  
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;

DNAzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
inflammatory arthropathy; central nervous system injury;  
cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
Parkinson's disease; ataxia; Huntington's disease;  
Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
Homo sapiens.  
Synthetic.  
W0200159103-A2.  
16-AUG-2001.  
09-FEB-2001; 2001WO-US0004273.  
11-FEB-2000; 2000US-0181797P.  
28-FEB-2000; 2000US-0185516P.  
06-MAR-2000; 2000US-0187128P.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MCSW/) MCSWIGGEN J.  
PA (CHOW/) CHOWRIRA B M.  
XX Blatt L, Mcswiggen J, Chowrira BM;  
WPI; 2001-607195/69.  
Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
constructs, which down regulate expression of a CD20 gene or neurite  
growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
central nervous system injury.  
Claim 88; Page 130; 200pp; English.  
The invention relates to a nucleic acid molecule which down regulates  
expression of a CD20 gene and a nucleic acid molecule which down  
regulates expression of a neurite growth inhibitor gene (NOGO). The  
nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
DNzyme) an inozyme (an endolytic nucleic acid cleaving a NYN motif) pr  
possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr  
an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
Furthermore, it may be contacted with a cell to reduce CD20 activity of  
the cell and treat a patient having a condition associated with the level  
of CD20. The treatment may further comprise the use of one or more  
therapies. In particular, the CD20 targeting nucleic acid may be used to  
treat central nervous system (CNS) injury and cerebrovascular accident  
(CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
disease, muscular dystrophy, and/or other neurodegenerative disease  
states which respond to the modulation of NOGO expression. The present  
sequence is an amberzyme molecule of the invention  
Sequence 17 BP; 2 A; 6 C; 9 G; 0 T; 0 U; 0 Other;

Query Match 1.5%; Score 15.4; DB 1; Length 17;  
 Best Local Similarity 94.1%; Pred. No. 41;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 114 GCGGCGGCGGCGAGCTGC 130  
 DB 1 GCGGCGGCGGCGAGCAGC 17

RESULT 46  
 ABK00765  
 ID ABK00765 standard; RNA; 17 BP.  
 AC ABK00765;  
 XX  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NOGO Inozyme #35.  
 XX

Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 cerebrotective; neurotropic; neuroprotective; antiparkinsonian;  
 muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 DNazyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;  
 B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 human immunodeficiency virus; central nervous system injury;  
 inflammatory arthropathy; CVA; Alzheimer's disease; multiple sclerosis;  
 cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 Parkinson's disease; ataxia; Huntington's disease;  
 Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

OS Homo sapiens.  
 OS Synthetic.  
 XX  
 XX  
 PN WO200159103-A2.  
 XX  
 XX 16-AUG-2001.  
 XX  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX  
 PR 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX

(RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 XX

Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 constructs, which down regulate expression of a CD20 gene or neurite  
 growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 central nervous system injury.

Claim 88; Page 78; 200pp; English.

The invention relates to a nucleic acid molecule which down regulates  
 expression of a CD20 gene and a nucleic acid molecule which down  
 regulates expression of a neurite growth inhibitor gene (NOGO). The  
 nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 an amberzyme (cleaving RNA with an NGN triplet), a zinczyme (cleaving RNA  
 with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 the cell and treat a patient having a condition associated with the level  
 of CD20. The treatment may further comprise the use of one or more

therapies. In particular, the CD20 targeting nucleic acid may be used to  
 treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 cell and treat a patient having a condition associated with the level of  
 NOGO. The treatment may further comprise the use of one or more  
 therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 treat central nervous system (CNS) injury and cerebrovascular accident  
 (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 disease, muscular dystrophy, and/or other neurodegenerative disease  
 states which respond to the modulation of NOGO expression. The present  
 sequence is an inozyme of the invention

Sequence 17 BP; 2 A; 6 C; 8 G; 0 T; 1 U; 0 Other;  
 Query Match 1.5%; Score 15.4; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 41;  
 Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 114 GCGGCGGCGGCGAGCTGC 130  
 DB 1 GCGGCGGCGGCGAGCAGC 17

RESULT 47  
 AAL51375/c  
 ID AAL51375 standard; DNA; 19 BP.  
 XX  
 AC AAL51375;  
 XX  
 XX 27-MAR-2003 (first entry)  
 XX  
 DE Human BCL2 gene PCR primer - SEQ ID No 18.  
 XX

Human; PCR; primer; ss; probe preparation; chromosomal translocation;  
 fluorescence in-situ hybridisation; FISH; chromosomal re-arrangement;  
 chromosomal deletion; haematological malignancy; solid tumour.

OS Homo sapiens.  
 XX  
 PN WO200293130-A2.  
 XX  
 XX 21-NOV-2002.  
 XX  
 XX 14-MAY-2002; 2002WO-US015492.  
 XX  
 PR 14-MAY-2001; 2001US-0291121P.  
 PR 08-NOV-2001; 2001US-0337653P.  
 PR 13-FEB-2002; 2002US-0357195P.  
 XX  
 XX (CANC-) CANCER GENETICS INC.  
 XX  
 XX Palanisamy N, Chaganti RS;  
 XX WPI; 2003-120711/11.  
 XX

Preparing probes for detecting chromosomal re-arrangements and/or  
 deletions, comprises hybridizing fragments using fluorescence in situ  
 hybridization.

Example 5; Page 74; 125pp; English.

The invention comprises a method of preparing probes for detecting  
 chromosomal translocation, the method involves hybridising fragments  
 using fluorescence in-situ hybridisation (FISH). The method of the  
 invention is useful for analysing chromosomal re-arrangements and/or

CC deletions. The chromosomal re-arrangements may be used as diagnostic and  
CC follow-up markers for haematological malignancies or solid tumours. The  
CC present DNA sequence represents a PCR primer that was used to produce a  
CC probe in the method of the invention  
XX  
SQ Sequence 19 BP; 4 A; 4 C; 3 G; 8 T; 0 U; 0 Other;  
Query Match 1.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 52;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 606 TGGATCTGAAATGAATC 622  
DB 19 TGGATCAGAAATGAATC 3  
RESULT 48  
ABZ88038  
ID ABZ88038 standard; DNA; 20 BP.  
XX  
AC ABZ88038;  
XX  
DT 17-OCT-2003 (first entry)  
XX  
DE Human oligonucleotide sequence.  
XX  
KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
KW lung inflammation; respiratory disease; ds.  
XX  
OS Homo sapiens.  
XX  
FN WO200285308-A2.  
XX  
PD 31-OCT-2002.  
XX  
PF 23-APR-2002; 2002WO-US013135.  
XX  
PR 24-APR-2001; 2001US-0286137P.  
XX  
PA (EPIG-) EPIGENESIS PHARM INC.  
XX  
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
XX  
DR WPI; 2003-229219/22.  
XX  
PT Pharmaceutical composition for treating ailments associated with impaired  
PT respiration, has oligo(s) antisense to specific gene(s) or its  
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
PT ubiquinone.  
XX  
PS Disclosure; SEQ ID NO 3280; 872bp; English.  
XX  
CC The invention relates to a novel pharmaceutical composition, which has a  
CC first active agent comprising an oligonucleotide antisense to the  
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
CC junctions of genes encoding a polypeptide associated with lung and/or  
CC nasal airway dysfunction and a second active agent comprising an  
CC antiinflammatory steroid and ubiquinone. A composition of the invention  
CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and  
CC immunosuppressive, and cytostatic activity. The composition may have a  
CC use in antisense gene therapy. The composition is useful for treating or  
CC preventing a respiratory, lung or malignant disease or condition, also  
CC for enhancing the prophylactic or therapeutic respiratory effect of an  
CC antiinflammatory steroid in a subject, for reducing or depleting levels  
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,

CC lung inflammation, lung allergies, or a respiratory disease or condition.  
CC Note: The sequence data for this patent is not represented in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 20 BP; 3 A; 7 C; 9 G; 1 T; 0 U; 0 Other;  
Query Match 1.5%; Score 15.4; DB 1; Length 20;  
Best Local Similarity 94.1%; Pred. No. 58;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 114 GCGGCGGCGGCGAGCTGC 130  
DB 1 GCGGCGGCGGCGAGCTGC 17  
RESULT 49  
AAQ52305/c  
ID AAQ52305 standard; cDNA; 20 BP.  
XX  
AC AAQ52305;  
XX  
DT 25-MAR-2003 (revised)  
DT 03-JUN-1994 (first entry)  
XX  
DE FKBP12C PCR primer VX10201.  
XX  
KW Transplant rejection; monitoring; FK506 immunosuppressant therapy;  
KW tissue specific; polymerase chain reaction; ss.  
XX  
OS Synthetic.  
XX  
PN WO9323548-A2.  
XX  
PD 25-NOV-1993.  
XX  
PF 20-MAY-1993; 93WO-US004916.  
XX  
PR 20-MAY-1992; 92US-00886611.  
XX  
PA (VERT-) VERTEX PHARM INC.  
XX  
PI Peattie DA;  
XX  
DR WPI; 1993-386579/48.  
XX  
PT New cDNA for tissue specific FK506 binding proteins - and detection of  
PT its mRNA to monitor transplant rejection and effect of FK506  
PT immunosuppressant therapy.  
XX  
PS Example 4; Page 35; 54pp; English.  
XX  
CC The sequence is that of a PCR primer VX10201 which was used to amplify  
CC DNA specific to FKBP12C. (Updated on 25-MAR-2003 to correct PN field.)  
XX  
SQ Sequence 20 BP; 1 A; 11 C; 6 G; 2 T; 0 U; 0 Other;  
Query Match 1.5%; Score 15.2; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 62;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 113 GCGGCGGCGGCGAGCTGC 132  
DB 20 GCGGCGGCGGCGAGCTGC 1  
RESULT 50  
AAT41334/c  
ID AAT41334 standard; DNA; 20 BP.  
XX  
AC AAT41334;  
XX  
DT 04-DEC-1996 (first entry)

DE Human gene signature HUMGS00732-derived anti-sense primer.  
 XX  
 XX  
 KW Gene signature; messenger RNA; mRNA; relative abundance; frequency;  
 KW human; cloning; mapping; non-biased library; diagnosis; detection;  
 KW cell typing; abnormal cell function; primer; PCR; amplification;  
 KW polymerase chain reaction; ss.  
 XX  
 OS Synthetic.  
 OS  
 XX  
 XX W09514772-A1.  
 PN  
 XX  
 PD 01-JUN-1995.  
 XX  
 XX 11-NOV-1994; 94WO-JP001916.  
 XX  
 XX 12-NOV-1993; 93JP-00355504.  
 PR  
 XX (MATSU) MATSUBARA K.  
 PA (OKUBU) OKUBO K.  
 PA  
 XX Matsubara K, Okubo K;  
 PI  
 XX WPI; 1995-206931/27.  
 DR  
 XX Single-stranded DNA for identifying gene signatures - isolated from 3'-  
 PT directed human cDNA library that reflects relative abundance of corresp.  
 PT mRNA in specific human tissues.  
 PT  
 XX  
 PS Example 7; Fig 10; 2245pp; Japanese.  
 XX  
 CC Primers T41001-T41382 are derived from novel human gene signature (GS)  
 CC sequences which did not match with sequences deposited in Genbank release  
 CC 76. The GS sequences (T19001-T26837) were obtained from 3'-directed cDNA  
 CC libraries prepared from various human tissues; synthesis of cDNA was  
 CC initiated from the 3'-end of mRNA by using poly(17) as the sole primer.  
 CC Each library is constructed so as to reflect accurately the relative  
 CC abundance of different mRNAs in the particular tissue from which it was  
 CC derived. The appearance frequency of a given GS in a cDNA library can be  
 CC determined (esp. using primers and probes derived from the GS sequences)  
 CC as a means of diagnosing abnormal cell function or for recognising  
 CC different cell types. The primers T41333-4 amplify clone pm1452 which  
 CC comprises the GS HUMGS00732 (T19732). This amplification reaction gave a  
 CC prod. indistinguishable from the same PCR using mouse or Chinese hamster  
 CC ovary DNA as a template  
 CC  
 XX Sequence 20 BP; 2 A; 5 C; 3 G; 10 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.5%; Score 15.2; DB 1; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 62;  
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 604 GATGATCTGAATGAATCA 623  
 DB 20 GAAGGAAGTGAATGAACCA 1  
 RESULT 51  
 AAZ06414  
 ID AAZ06414 standard; DNA; 20 BP.  
 XX  
 AC AAZ06414;  
 XX  
 XX 09-NOV-1999 (first entry)  
 DT  
 XX Primer C for PCR of gamma-4 germline transcription initiation sites.  
 DE  
 XX Immunoglobulin G4; allergy; germline; transcription; Ig G4; promoter;  
 KW assay; blocking antibody; inhibition; RT-PCR; primer; ss.  
 KW  
 XX Synthetic.  
 OS  
 OS Homo sapiens.  
 XX

PN W09941380-A1.  
 XX  
 PD 19-AUG-1999.  
 XX  
 XX 08-FEB-1999; 99WO-IT000026.  
 PF  
 XX 10-FEB-1998; 98IT-MI000252.  
 PR  
 XX (VERC/) VERCELLI D.  
 PA (AGRE/) AGRESTI A.  
 PA  
 XX Vercelli D, Agresti A;  
 PI  
 XX WPI; 1999-518450/43.  
 DR  
 XX Promoter for gamma4 germline transcription, used for, e.g. screening for  
 PT anti-allergic compounds.  
 PT  
 XX Disclosure; Fig 2; 34pp; English.  
 PS  
 XX This primer sequence was used to identify the region where gamma-4  
 CC germline transcription initiates. Reverse transcription polymerase chain  
 CC reaction was performed using 5' primers AAZ06412, AAZ06413, AAZ06414 and  
 CC AAZ06415. The primer binding site were located approximately 150 bp from  
 CC each other in the 500 bp region upstream of the I-gamma-4 forward primer.  
 CC Hinge gamma-4 reverse oligonucleotide was used as a reverse primer  
 CC  
 XX Sequence 20 BP; 3 A; 4 C; 12 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.5%; Score 15.2; DB 1; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 62;  
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 367 GAGCCCGGGAGAGAGCGGGC 386  
 DB 1 GAGCTGGGGAGAGCGGGC 20  
 RESULT 52  
 AAZ71977/c  
 ID AAZ71977 standard; DNA; 20 BP.  
 XX  
 AC AAZ71977;  
 XX  
 XX 10-SEP-2001 (first entry)  
 DT  
 XX Human biallelic marker upstream amplification primer SEQ ID NO:6333.  
 DE  
 XX Human genome; biallelic marker; high density disequilibrium map;  
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;  
 KW haplotyping; hybridisation; identification; characterisation;  
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;  
 KW diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 OS  
 XX W09954500-A2.  
 PN  
 XX 28-OCT-1999.  
 PD  
 XX 21-APR-1999; 99WO-IB000822.  
 PF  
 XX 21-APR-1998; 98US-0082614P.  
 PR  
 XX 23-NOV-1998; 98US-0109732P.  
 PR  
 XX (GEST ) GENSET.  
 PA  
 XX Cohen D, Blumenfeld M, Chumakov I;  
 PI  
 XX WPI; 2000-013267/01.  
 DR  
 XX Novel biallelic markers used to construct a high density disequilibrium  
 PT map of the human genome.

```
XX Claim 9; Page 1581; 2745pp; English.
PS
XX AAZ65654 to AAZ69578 represent human biallelic markers from the present
CC invention, which contain a polymorphic base at position 24 of their
CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
CC primers for the biallelic markers. The biallelic markers of the invention
CC have a variety of uses: they can be used for high density mapping of the
CC human genome, and in complex association studies and haplotyping studies
CC which are useful in determining the genetic basis for disease states.
CC Compositions and methods of the invention can also be useful for the
CC identification of the targets for the development of pharmaceutical
CC agents and diagnostic methods, as well as the characterisation of the
CC differential efficacious responses to and side effects from
CC pharmaceutical agents acting on a disease as well as other treatment.
CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
CC 3367, are not actually given a sequence in the Sequence Listing from the
CC present invention
XX
SQ Sequence 20 BP; 2 A; 7 C; 0 G; 11 T; 0 U; 0 Other;

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 62;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 550 GAAAGGAGGAATAGCGGAGG 569
Db 20 GAAATGAGAAATAGGAAGG 1

RESULT 53
AAAF31798
ID AA31798 standard; DNA; 20 BP.
XX
AC AA31798;
XX
XX 10-APR-2001 (first entry)
XX
DE Human RANK antisense oligonucleotide, SEQ ID NO: 56.
XX
KW Human; cytostatic; antiinflammatory; antisense oligonucleotide; cancer;
KW receptor activator of NF-kappaB; RANK; infection; inflammation; ss.
XX
OS Homo sapiens.
XX
XX US6171860-B1.
XX
PD 09-JAN-2001.
XX
PF 05-NOV-1999; 99US-00435296.
XX
PR 05-NOV-1999; 99US-00435296.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Baker BP, Cowsett LM;
XX
DR WPI; 2001-136876/14.
XX
PT Novel antisense compounds capable of modulating expression of human
PT receptor activator of NF-kappaB useful for diagnosis, prophylaxis and
PT treatment of diseases associated with expression of RANK.
XX
PS Claim 14; Col 43; 40pp; English.
XX
CC The present sequence is one of a number of antisense compounds of 8 to 30
CC nucleobases in length that have been designed to target a 5'untranslated
CC region, start codon, coding region or 3'untranslated region of the human
CC receptor activator of NF-kappaB (RANK). The antisense compounds
CC specifically hybridise with and inhibit the expression of RANK. The
CC antisense oligonucleotides are useful for inhibiting the expression of
CC human RANK in human cells or tissues. They can be utilised for
CC diagnostics, therapeutics for the treatment of diseases associated with

CC the expression of RANK, prophylaxis e.g. to prevent or delay infection,
CC inflammation or tumour formation, and as research reagent. The antisense
CC compounds are safely and effectively administered to humans
XX
SQ Sequence 20 BP; 1 A; 13 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 62;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 294 CAGCCGGCGGGCGGCCACC 313
Db 1 CAGCCGGCGGGCGGCCCTCC 20

RESULT 54
AAD15646/c
ID AAD15646 standard; DNA; 20 BP.
XX
AC AAD15646;
XX
XX 15-NOV-2001 (first entry)
XX
DE Human Bcl-2 protein target DNA #20.
XX
KW Human; Bcl-2 protein; genetic disease; antisense target; therapeutic; ss.
XX
OS Homo sapiens.
XX
XX WO200161030-A2.
XX
PD 23-AUG-2001.
XX
PF 14-FEB-2001; 2001WO-US004732.
XX
PR 14-FEB-2000; 2000US-00504653.
XX
PA (BOLL/) BOLLON A P.
PA (GRAY/) GRAY D M.
PA (JUSE/) JU-SEOG L.
XX
PI Bollon AP, Gray DM, Ju-Seog L;
XX
XX WPI; 2001-529916/58.
XX
PT Selecting optimal subsequence antisense targets for inhibition of mRNA
PT expression of target mRNA for the therapeutic treatment of genetic
PT disease.
XX
XX Example 9; Page 28; 87pp; English.
XX
CC The invention relates to a method for selecting optimal subsequence
CC antisense targets. The method involves preparing an antisense
CC oligonucleotide capable of inhibiting mRNA expression of target mRNA
CC sequences, as well as antisense oligonucleotides capable of binding DNA.
CC The antisense and antigen libraries are useful for preparing therapeutic
CC agents for the treatment of genetic disease. The present DNA sequence is
CC human Bcl-2 protein target DNA related to the invention. Note: The
CC present sequence is shown as DNA in the specification; however, in vivo,
CC this target sequence would be mRNA
XX
SQ Sequence 20 BP; 2 A; 6 C; 10 G; 2 T; 0 U; 0 Other;

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 62;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 299 GGCAGCGCGGCCACCTTACC 318
Db 20 GGCAGCGCGGCCACATCTCC 1

RESULT 55
```



AAH46290/c  
 ID AAH46290 standard; DNA; 20 BP.  
 AC AAH46290;  
 XX  
 XX  
 DT 25-SEP-2001 (first entry)  
 XX  
 DE Human interferon regulatory factor-1 (IRF-1) reverse RFLP PCR primer.  
 XX  
 XX Human; interferon regulatory factor-1; IRF-1; promoter; upstream region;  
 KW genotyping; polymorphism; hepatitis C virus; HCV infection;  
 KW interferon therapy efficacy; IFN; RFLP analysis;  
 KW restriction fragment length polymorphism; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX JP2001136973-A.  
 XX  
 PD 22-MAY-2001.  
 XX  
 PF 16-NOV-1999; 99JP-00324975.  
 XX  
 PR 16-NOV-1999; 99JP-00324975.  
 XX  
 PA (SAKA ) OTSUKA PHARM CO LTD.  
 XX  
 XX WPI; 2001-460211/50.  
 DR  
 PT Detection of abnormal human interferon regulatory factor-1 (IRF-1) gene.  
 XX  
 PS Example 2; Page 6; 8pp; Japanese.  
 XX  
 CC The invention relates to a method for the detection of an abnormal allele  
 CC of the human interferon regulatory factor-1 (IRF-1) gene. The abnormal  
 CC allele (AAH46293) is present in PLC/PRE/5 liver cancer cells and contains  
 CC a G to A substitution at position 196 of the IRF-1 promoter region  
 CC (normal alleles given in AAH46293 and AAH46294). The abnormal allele  
 CC confers an insensitivity to the effects of interferon (IFN). In the  
 CC method of the invention, the presence or absence of adenine at position  
 CC 196 of the IRF-1 promoter is detected using procedures such as  
 CC restriction fragment length polymorphism (RFLP) analysis. Prior to  
 CC analysis, an IRF-1 gene fragment containing the polymorphic site can  
 CC optionally be prepared (e.g., by PCR). The invention also discloses the  
 CC use of IRF-1 gene fragments as probes to detect the A polymorphism. The  
 CC method of the invention is used to genotype a patient with hepatitis C  
 CC virus (HCV) infection in order to predict whether interferon therapy will  
 CC be effective. Sequences AAH46289-AAH46290 represent PCR primers used in  
 CC an exemplification of the invention to amplify wild-type and polymorphic  
 CC IRF-1 promoter region fragments containing the position 196 polymorphic  
 CC site for RFLP analysis  
 XX  
 SQ Sequence 20 BP; 6 A; 3 C; 10 G; 1 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 15.2; DB 1; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 62;  
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 203 CCTGCTTCCCTCGCCG 222  
 DB 20 CCTGCTTCCCTCGCCG 1  
 RESULT 56  
 ABZ88026/c  
 ID ABZ88026 standard; DNA; 20 BP.  
 XX  
 XX AC ABZ88026;  
 XX  
 DT 17-OCT-2003 (first entry)  
 XX  
 DE Human oligonucleotide sequence.  
 XX  
 KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 lung inflammation; respiratory disease; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200285308-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 PF 23-APR-2002; 2002WO-US013135.  
 XX  
 PR 24-APR-2001; 2001US-0286137P.  
 XX  
 XX (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 DR WPI; 2003-229219/22.  
 XX  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 PS Disclosure; SEQ ID NO 3268; 872pp; English.  
 XX  
 CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 20 BP; 2 A; 7 C; 5 G; 6 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 15.2; DB 1; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 62;  
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 155 ACCAGCTGCTGAGCAGCG 174  
 DB 20 ACCAGCTGCTGAGCAGCAG 1  
 RESULT 57  
 ABZ98578  
 ID ABZ98578 standard; DNA; 20 BP.  
 XX  
 XX AC ABZ98578;  
 XX  
 DT 17-OCT-2003 (first entry)  
 XX  
 DE Human ICAM oligonucleotide sequence.  
 XX  
 KW Human; antisense; lung dysfunction; nasal airway dysfunction;

KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200285308-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 XX 23-APR-2002; 2002WO-US013135.  
 XX  
 PF 24-APR-2001; 2001US-0286137P.  
 XX  
 PR (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PA Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 DR WPI; 2003-229219/22.  
 XX  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 PS Disclosure; SEQ ID NO 13820; 872pp; English.  
 XX  
 CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 20 BP; 1 A; 6 C; 13 G; 0 T; 0 U; 0 Other;

Query Match 1.5%; Score 15.2; DB 1; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 62;  
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 84 GGGCAGCGGGCGCGCGAGC 103  
 Db 1 GGGCAGCGGGCGCGCGAGC 20

RESULT 58  
 AAF45311/c  
 ID AAF45311 standard; DNA, 15 BP.  
 XX  
 AC AAF45311;

XX  
 DT 30-MAR-2001 (first entry)  
 XX  
 DE IGFBP2 oligonucleotide #150.

KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;

KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.

XX Homo sapiens.  
 XX OS  
 XX PN WO200078341-A1.  
 XX  
 PD 28-DEC-2000.  
 XX  
 PF 21-JUN-2000; 2000WO-AU000693.  
 XX  
 PR 21-JUN-1999; 99US-0140345P.  
 XX  
 PA (MURD-) MURDOCH CHILDRENS RES INST.  
 XX  
 PI Wraight CJ, Werther GA, Edmondson SR;  
 XX  
 DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.

XX Example 6; Page 35; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 XX  
 SQ Sequence 15 BP; 0 A; 9 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 1.5%; Score 15; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 37;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 113 GGGCGGGCGCGCAGC 127  
 Db 15 GGGCGGGCGCGCAGC 1

RESULT 59  
 ABK01789  
 ID ABK01789 standard; RNA; 17 BP.

XX  
 AC ABK01789;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NOGO Zinzyne #111.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; zinzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;

human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

OS Homo sapiens.  
OS Synthetic.  
XX WO200159103-A2.  
XX 16-AUG-2001.  
XX 09-FEB-2001; 2001WO-US004273.  
XX 11-FEB-2000; 2000US-0181797P.  
XX 28-FEB-2000; 2000US-0185516P.  
XX 06-MAR-2000; 2000US-0187128P.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLATY) BLATT L.  
PA (MCSW/) MCSWIGGEN J.  
PA (CHOW/) CHOWRIRA B M.  
XX Blatt L, Mcswiggen J, Chowrira BM;  
XX WPI; 2001-607195/69.  
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury.  
XX Claim 88; Page 97; 200pp; English.  
XX The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NAGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a DNzyme) an inzyme (an endolytic nucleic acid cleaving a NYN motif) or possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targetting nucleic acid may be used to treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune thrombocytopaenia, and inflammatory arthropathy. The NAGO-targetting nucleic acid is used to cleave RNA of the NAGO gene in the presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the nucleic acid may be contacted with a cell to reduce NAGO activity of the cell and treat a patient having a condition associated with the level of NAGO. The treatment may further comprise the use of one or more therapies. In particular, the NAGO-targetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modulation of NAGO expression. The present sequence is a zinzyme molecule of the invention

XX Sequence 17 BP; 2 A; 6 C; 9 G; 0 T; 0 U; 0 Other;  
Query Match 1.5%; Score 15; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 48;  
XX

human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma; MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia; inflammatory arthropathy; central nervous system injury; cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis; chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS; Parkinson's disease; ataxia; Huntington's disease; Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

OS Homo sapiens.  
OS Synthetic.  
XX WO200159103-A2.  
XX 16-AUG-2001.  
XX 09-FEB-2001; 2001WO-US004273.  
XX 11-FEB-2000; 2000US-0181797P.  
XX 28-FEB-2000; 2000US-0185516P.  
XX 06-MAR-2000; 2000US-0187128P.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLATY) BLATT L.  
PA (MCSW/) MCSWIGGEN J.  
PA (CHOW/) CHOWRIRA B M.  
XX Blatt L, Mcswiggen J, Chowrira BM;  
XX WPI; 2001-607195/69.  
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense constructs, which down regulate expression of a CD20 gene or neurite growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and central nervous system injury.  
XX Claim 88; Page 97; 200pp; English.  
XX The invention relates to a nucleic acid molecule which down regulates expression of a CD20 gene and a nucleic acid molecule which down regulates expression of a neurite growth inhibitor gene (NAGO). The nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a DNzyme) an inzyme (an endolytic nucleic acid cleaving a NYN motif) or possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA with a YGY motif). The CD20-targetting nucleic acid is used to cleave RNA of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, it may be contacted with a cell to reduce CD20 activity of the cell and treat a patient having a condition associated with the level of CD20. The treatment may further comprise the use of one or more therapies. In particular, the CD20 targetting nucleic acid may be used to treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma, immune thrombocytopaenia, and inflammatory arthropathy. The NAGO-targetting nucleic acid is used to cleave RNA of the NAGO gene in the presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the nucleic acid may be contacted with a cell to reduce NAGO activity of the cell and treat a patient having a condition associated with the level of NAGO. The treatment may further comprise the use of one or more therapies. In particular, the NAGO-targetting nucleic acid may be used to treat central nervous system (CNS) injury and cerebrovascular accident (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS), chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS), Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob disease, muscular dystrophy, and/or other neurodegenerative disease states which respond to the modulation of NAGO expression. The present sequence is a zinzyme molecule of the invention

XX Sequence 17 BP; 2 A; 6 C; 9 G; 0 T; 0 U; 0 Other;  
Query Match 1.5%; Score 15; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 48;  
XX

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 GCGCGGGCGGCGAGC 127  
|||||  
Db 2 GCGCGGGCGGCGAGC 16  
|||||

RESULT 60  
ABZ61434  
ID ABZ61434 standard; RNA; 17 BP.  
XX  
AC ABZ61434;  
XX  
XX 21-MAR-2003 (first entry)  
XX Human H-Ras DNzyme target #225.  
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;  
XX enzymatic nucleic acid; H-Ras; HIV; cytostatic; anti-HIV;  
XX anti-rheumatic; cancer; AIDS; ss.  
XX Homo sapiens.  
XX WO200297114-A2.  
XX  
XX 05-DEC-2002.  
XX 29-MAY-2002; 2002WO-US016840.  
XX 29-MAY-2001; 2001US-0294140P.  
XX 06-JUN-2001; 2001US-0296249P.  
XX 10-SEP-2001; 2001US-0318471P.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Mcswiggen J;  
XX WPI; 2003-140484/13.  
XX Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.  
XX Claim 58; Page 115; 185pp; English.  
XX The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ65524, ABZ66530 - ABZ66585 represent substrate/target sequences for the human ribozymes of the invention

XX Sequence 17 BP; 1 A; 8 C; 3 G; 0 T; 5 U; 0 Other;  
Query Match 1.5%; Score 15; DB 1; Length 17;  
Best Local Similarity 66.7%; Pred. No. 48;  
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 767 CCCAGTGCCTTTC 781  
|||||  
Db 2 CCCAGTGCCTTTC 16  
|||||

RESULT 61  
AAQ96137/c  
ID AAQ96137 standard; DNA; 18 BP.  
XX

AC AAQ96137;  
 XX 13-APR-1996 (first entry)  
 XX Human C-beta-internal DNA primer.  
 XX Diabetes; adoptive immunotherapy; gene therapy;  
 KW T-cell receptor beta-chain; PCR; polymerase chain reaction; primer; ss.  
 XX Synthetic.  
 XX WO9521623-A1.  
 XX 17-AUG-1995.  
 XX 10-FEB-1995; 95WO-US001572.  
 XX 14-FEB-1994; 94US-00195963.  
 XX (UYVE-) UNIV VERMONT.  
 XX Albertini RJ, Falta MT;  
 XX WPI; 1995-292941/38.  
 XX Preventing or reducing severity of diabetes - by inhibiting the activity  
 PT of specific T-cells, partic. by interfering with diabetes-associated T  
 PT cell receptors.  
 XX Example; Page 20; 42pp; English.  
 XX The T-cell receptor beta chain repertoire of normal and diabetic  
 CC individuals was examined by PCR amplification of cDNA using the primers  
 CC given in AAQ96135-37, with sequencing of the product using the primer  
 CC given in AAQ96138. The results indicated predominant usage of V-beta-6 or  
 CC V-beta-14 in diabetics  
 XX Sequence 18 BP; 3 A; 6 C; 6 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 1.5%; Score 15; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 55;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 161 TGCCTGAGCAGCCGC 175  
 Db 15 TGCCTGAGCAGCCGC 1  
 RESULT 62  
 ID AAQ31559/c  
 AC AAQ31559 standard; DNA; 19 BP.  
 XX AAQ31559;  
 XX 25-MAR-2003 (revised)  
 DT 20-APR-1993 (first entry)  
 XX NF-kB anti-sense primer for tissue distribution analysis by PCR.  
 XX IkappaB; NF-kappa-B-binding protein; inhibits NF-kappa-B-;  
 KW transcriptional activator; treatment of viral diseases; cytokines;  
 KW viral proteins; immunoglobulin; Antibody.  
 XX Homo sapiens.  
 XX WO9220795-A1.  
 XX 26-NOV-1992.  
 XX 14-MAY-1992; 92WO-US004073.  
 XX 17-MAY-1991; 91US-00702770.  
 XX

PA (CETU ) CETUS ONCOLOGY CORP.  
 PA (UYNC-) UNIV NORTH CAROLINA.  
 PI Haskill JS, Baldwin AS, Ralph P;  
 XX WPI; 1992-415773/50.  
 XX New NF- kappa-B-binding protein which inhibits NF- kappa-B  
 PT transcriptional activator - useful for diagnosing, treating and  
 PT preventing diseases resulting from gene over-expression.  
 XX Example 4; Page 26; 40pp; English.  
 XX This sequence represents an anti-sense PCR primer used for the PCR  
 CC determination of Ikb inhibitor tissue distribution. Total RNA was  
 CC isolated from the tissue under test and converted into first strand DNA  
 CC using random hexamers. So that transcript frequencies could be compared  
 CC from one tissue type to another dose response curves were determined at  
 CC the same PCR cycle (30) as test samples. Standards included Ikb cDNA at  
 CC various dilutions, as well as RNA isolated from monocytes that had  
 CC adhered for 4 hours to a substratum that induces Ikb expression. This  
 CC primer was used with AAQ31558. The analysis revealed Ikb expression in  
 CC HSB and RAJI cells, glioblastoma cells; G82, HUVE cells. The amount of  
 CC Ikb could be increased by activation of HUVE cells by LPS, causing  
 CC approx. a 9 fold increase in Ikb expression. Adherence of HUVE cells  
 CC caused an 80 fold increase in expression. Expression of NF-kB was also  
 CC shown for To and 4 hour plastic adherent monocytes. Ikb was also observed  
 CC to be present in several melanoma cell lines, and the level of expression  
 CC is enhanced 2-3fold by exposure to PMA, but little or no increase is seen  
 CC after IL-2 or TNF exposure. (Updated on 23-MAR-2003 to correct FN field.)  
 XX Sequence 19 BP; 2 A; 5 C; 4 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 1.5%; Score 15; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 531 CTGGAGCAGCAATG 545  
 Db 16 CTGGAGCAGCAATG 2  
 RESULT 63  
 ID AAQ30475  
 XX AAQ30475 standard; DNA; 18 BP.  
 AC AAQ30475;  
 XX 14-OCT-1998 (first entry)  
 DT Canine beta-3 adrenergic receptor antisense primer TR21.  
 XX Canine; beta-adrenergic receptor; brown adipose tissue; probe; human;  
 KW hybridisation; ligand; primer; ss.  
 XX Synthetic.  
 OS Canis familiaris.  
 XX WO9735973-A2.  
 XX 02-OCT-1997.  
 PD 26-MAR-1997; 97WO-FR000537.  
 PF 26-MAR-1996; 96FR-00003730.  
 XX (VETI-) VETIGEN.  
 XX Lenzen G, Pietri-Rouxel F, Drumare M, Strosberg AD;  
 PI WPI; 1998-032136/03.  
 XX Canine beta 2 and beta 3 adrenergic receptors and coding sequences -

PT useful for identifying specific ligands and (ant)agonists to develop  
 PT specific treatments for obesity in dogs.  
 PS Claim 17; Page 49; 79pp; French.  
 XX  
 XX Primers AAV30470-V30490 were used for sequencing the coding region of the  
 CC canine beta 3-adrenergic receptor (RA-Ca-b3) gene (AAV30469). RA-Ca-b3  
 CC has been implicated in obesity and obesity-related metabolic disorders  
 CC e.g. diabetes. The canine version of RA-Ca-b3 can be used to develop  
 CC treatments specific for dogs. The sequence can also be used in  
 CC differential screening for ligands for RA-Ca-b3 as compared to the beta-2  
 CC adrenergic receptor (AAW44932)  
 XX  
 SQ Sequence 18 BP; 3 A; 8 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 14.8; DB 1; Length 18;  
 Best Local Similarity 88.9%; Pred. No. 59;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 390 CGCGCGCAGCGCTCC 407  
 Db 1 CGCGCAGAGACGCTCC 18  
 RESULT 64  
 ID AAV94820 standard; RNA; 18 BP.  
 AC AAV94820;  
 XX  
 XX 24-FEB-1999 (first entry)  
 DT  
 XX Human IL-2 receptor g-chain substrate position 58.  
 DE  
 XX Human; IL-2 receptor g-chain; interleukin 2 receptor gamma chain;  
 KW hampered ribozyme; hairpin ribozyme; substrate; expression; cancer;  
 KW autoimmune disease; psoriasis; allergy; inflammatory disease;  
 KW graft rejection; ss.  
 XX  
 XX Homo sapiens.  
 OS  
 XX WO9824913-A2.  
 PN  
 XX 11-JUN-1998.  
 PD  
 XX 02-DEC-1997; 97WO-US021748.  
 PF  
 XX 03-DEC-1996; 96US-00758306.  
 PR  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA  
 XX Stinchcomb DT, Mcswiggen JA;  
 PI  
 XX WPI; 1998-333332/29.  
 DR  
 XX Ribozymes targetted to interleukin 2 - useful for treating e.g. cancer,  
 PT autoimmune disease and allergies.  
 PT  
 XX Claim 4; Page 38; 61pp; English.  
 PS  
 XX The present sequence invention describes ribozymes targeted to modulate  
 CC the synthesis and/or expression of interleukin (IL)-2R gamma encoded RNA.  
 CC AAV93889 to AAV94574 represent specifically claimed ribozymes, and  
 CC AAV94575 to AAV95260 represent specifically claimed substrate sequences  
 CC from the present invention. The ribozymes can be used for the treatment  
 CC of, e.g. graft rejection, autoimmune disease, cancer, psoriasis, allergy  
 CC and other inflammatory conditions. The ribozymes are also used to induce  
 CC tolerance in a recipient to alloantigen from a donor  
 XX  
 SQ Sequence 18 BP; 1 A; 9 C; 4 G; 0 T; 4 U; 0 Other;  
 Query Match 1.5%; Score 14.8; DB 1; Length 18;  
 Best Local Similarity 77.8%; Pred. No. 59;

Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
 QY 405 TCCTGCAGCGCGCCCGC 422  
 Db 1 UCCUGCAGCUGCCCGCUGC 18  
 RESULT 65  
 ID AAZ4883 standard; DNA; 18 BP.  
 XX  
 XX AAZ4883;  
 AC  
 XX 29-MAR-2000 (first entry)  
 DT  
 XX Human ICAM-1 antisense inhibitor, ISIS #16861.  
 DE  
 XX Antisense inhibitor; human; ICAM-1; intercellular adhesion molecule-1;  
 KW vascular cell adhesion molecule-1; hyperproliferative disorder; VCAM-1;  
 KW endothelial leukocyte adhesion molecule-1; ELAM-1; skin condition;  
 KW cancer; viral infection; tumour; diapedesis; graft versus host disease;  
 KW arthritis; infection; autoimmune disorder; multiple sclerosis; stroke;  
 KW juvenile diabetes mellitus; arthritis; myasthenia gravis; therapy;  
 KW pemphigus vulgaris; systemic lupus erythematosus; acute myocarditis;  
 KW cardiovascular disorder; dilated cardiomyopathy; ischaemic heart disease;  
 KW ss.  
 XX  
 XX Homo sapiens.  
 OS  
 XX WO9961462-A1.  
 PN  
 XX 02-DEC-1999.  
 PD  
 XX 26-MAY-1999; 99WO-US011548.  
 PF  
 XX 27-MAY-1998; 98US-00085759.  
 PR  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX Bennett CF, Mirabelli CK, Baker BF;  
 PI  
 XX WPI; 2000-072600/06.  
 DR  
 XX New antisense oligonucleotides, used for treating e.g. inflammatory  
 PT conditions, psoriasis, graft rejection, cancers, infections,  
 PT cardiovascular disorders or autoimmune disorders.  
 PT  
 XX Claim 5; Page 193; 199pp; English.  
 PS  
 XX This sequence is an antisense oligonucleotide of the invention. The  
 CC antisense oligonucleotides are targeted to a nucleic acid encoding a  
 CC cellular adhesion molecule (CAM) and is capable of modulating the  
 CC expression of the CAM. They particularly inhibit intercellular adhesion  
 CC molecule-1 (ICAM-1), vascular cell adhesion molecule-1 (VCAM-1), or  
 CC endothelial leukocyte adhesion molecule-1 (ELAM-1). The antisense  
 CC oligonucleotides can be used to modulate CAM activity in mediating  
 CC cell:cell interactions and subsequent cellular and biological responses,  
 CC e.g. T cell activation, leukocyte transmigration and inflammation. The  
 CC antisense sequences can be used for modulating the synthesis of a CAM.  
 CC They can be used for treating an animal suspected of having or being  
 CC prone to a disease or condition associated with a CAM. Oligonucleotides  
 CC targeted to ICAM-1 can be used for treating an inflammatory disease or  
 CC condition e.g. inflammatory bowel disease such as Crohn's disease,  
 CC colitis or ulcerative colitis, a condition of the skin, e.g. psoriasis or  
 CC cytotoxic dermatitis, rheumatoid arthritis, allograft rejection, cancer,  
 CC pneumonia, multiple sclerosis or a viral infection. The ICAM-1 sequences  
 CC can also be used for reducing corticosteroid use in a patient or for  
 CC reducing cyclosporine use in a patient. The oligonucleotides can also be  
 CC used for detection and diagnosis. They can also be used for treating e.g.  
 CC hyperproliferative disorders, tumours, diapedesis, graft versus host  
 CC disease, arthritis, infections, autoimmune disorders, e.g. autoimmune  
 CC thyroid disorders, autoimmune forms of arthritis, multiple sclerosis,  
 CC some forms of juvenile diabetes mellitus, myasthenia gravis, pemphigus

CC vulgaris, systemic lupus erythematosus, cardiovascular disorders,  
CC myocardial ischaemia/reperfusion injury, dilated cardiomyopathy, acute  
CC myocarditis, ischaemic heart disease or stroke

XX Sequence 18 BP; 1 A; 8 C; 3 G; 6 T; 0 U; 0 Other;  
SQ Query Match 1.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 59;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 27 AGGAGCCCTCAAGCGGAG 44  
Db 18 AGGAGCACTCAAGGGGAG 1

## RESULT 66

ID ADA27361 standard; DNA; 18 BP.  
AC ADA27361;  
XX  
DT 20-NOV-2003 (first-entry)  
XX Human microsatellite repeat M2\_3\_8.  
DE ds; HLA-related research; HLA class II-associated disease;  
KW transplanted matching; recombination hot spot identification;  
KW linkage disequilibrium study; human; microsatellite.

XX Homo sapiens.

XX US2003108940-A1.

XX 12-JUN-2003.

XX 06-DEC-2002; 2002US-00314405.

XX 15-NOV-2000; 2000US-00713616.

XX (INOK/) INOKO H.

XX Inoko H, Tamiya G, Matsuzaka Y;

XX WPI; 2003-616782/58.

XX New oligonucleotide primer capable of specifically hybridizing to a DNA  
PT having the sequence of the flanking regions of a microsatellite (e.g.  
PT M249), useful for HLA-related research, e.g. transplantation matching.

XX Example 2; Page 5; 20pp; English.

XX The invention relates to an oligonucleotide primer capable of  
CC specifically hybridizing to a DNA having the sequence of the flanking  
CC regions of a microsatellite selected from M2-4-9, M2-2-9, M2-2-12, M2-3-  
CC 11, M2-2-20, M2-2-21, M2-2-23, M2-2-24, M2-2-25, M2-4-26, M2-2-  
CC 29, M2-2-32, M2-4-32, M2-4-33, M2-4-37, M2-3-22, M2-2-36, M2-5-11, M2-2-  
CC 46, and M2-2-48. The primer is useful for determining the number of  
CC repeat units of the microsatellite cited above. The primer is useful in  
CC HLA-related research, such as genetic mapping of HLA class II-associated  
CC diseases, transplantation matching, population genetics, and  
CC identification of recombination hot spots as well as linkage  
CC disequilibrium studies. The present sequence represents the human  
CC microsatellite repeat M2\_3\_8.

XX Sequence 18 BP; 0 A; 6 C; 12 G; 0 T; 0 U; 0 Other;  
SQ Query Match 1.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 59;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 114 GCGGCGCGCGGCGGCGG 131

Db 1 GCGGCGCGCGGCGGCGG 18

## RESULT 67

AAX55144  
ID AAX55144 standard; DNA; 19 BP.

XX AAX55144;  
AC AAX55144;  
DT 05-JUL-1999 (first entry)

XX C/EBP-beta antisense oligonucleotide fragment.

DE Antisense oligonucleotide; multiple target; antisense treatment;  
XX impaired respiration; inflammation; lung disease;  
XX pulmonary vasoconstriction; inflammation; allergic rhinitis;  
XX acute asthma; allergy; asthma; impeded respiration;  
XX respiratory distress syndrome; pain; cystic fibrosis;  
XX pulmonary hypertension; pulmonary vasoconstriction; emphysema;  
XX chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;  
XX colon cancer; breast cancer; lung cancer; pancreatic cancer;  
XX hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;  
XX prostate cancer; ss.

XX Synthetic.

XX WO9913886-A1.

XX 25-MAR-1999.

XX 17-SEP-1998; 98WO-US019419.

XX 17-SEP-1997; 97US-0059160P.

XX 09-JUN-1998; 98US-00093972.

XX (UYEC-) UNIV EAST CAROLINA.

XX Nyce JW;

XX WPI; 1999-229400/19.

XX New antisense oligonucleotides used in treatment of, e.g. pulmonary

PT vasoconstriction.

XX Disclosure; Page 72; 120pp; English.

XX The specification describes antisense oligonucleotides (AAX52869-X55271)  
CC directed against at least 2 mRNAs selected from target genes, coding and  
CC non-coding regions of RNAs corresponding to target genes, gene initiation  
CC codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-  
CC end and the juxta-section between coding and non-coding regions and all  
CC segments of RNAs encoding proteins associated with one or more diseases,  
CC conditions or mixtures. The antisense oligonucleotides may be derived  
CC from sequences AAX55272-74. These multiple target oligonucleotides  
CC (specifically AAX55180-271) can be used for the antisense treatment of  
CC diseases and conditions. Typical diseases and conditions are those  
CC associated with impaired respiration and inflammation, including lung  
CC diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis,  
CC acute asthma, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, pulmonary hypertension,  
CC pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary  
CC disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g.  
CC colon cancer, breast cancer, lung cancer, pancreatic cancer,  
CC hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as  
CC well as all types of cancers which may metastasize or have metastasized  
CC to the lungs, including breast and prostate cancer

XX Sequence 19 BP; 0 A; 9 C; 8 G; 2 T; 0 U; 0 Other;  
SQ Query Match 1.5%; Score 14.8; DB 1; Length 19;  
Best Local Similarity 88.9%; Pred. No. 66;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 47 GCGGCGCGCGGCGGCGG 64

```
Db 1 GCGCTCGCGCGCGTGC 18
|||||
RESULT 68
AAA34591
ID AAA34591 standard; DNA; 19 BP.
XX
AC AAA34591;
XX
DT 28-JUL-2000 (first entry)
XX
DE Human adenosine receptor related polynucleotide SEQ ID NO:2280.
XX
KW Human; adenosine receptor; low adenosine antisenase oligonucleotide;
KW phosphorothioate; impaired respiration; inflammation; allergy;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200009525-A2.
XX
PD 24-FEB-2000.
XX
PF 03-AUG-1999; 99WO-US017712.
XX
PR 03-AUG-1998; 98US-0095212P.
XX
PA (UYEC-) UNIV. EAST CAROLINA.
XX
PI Nyce JW;
XX
DR WPI; 2000-205971/18.
XX
PT New antisense oligonucleotides useful for treating e.g. pulmonary
PT vasoconstriction, inflammation, allergies, asthma, hypertension,
PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
PT cancers.
XX
PS Disclosure; Page 550; 1343pp; English.
XX
CC The present invention describes a new composition comprising an antisense
CC oligonucleotide (ON) with low adenosine (up to 15%), which targets
CC nucleic acids involved in bronchoconstriction, allergies, and/or
CC inflammation. The ON can have antiinflammatory, antiallergic,
CC antiasthmatic, cytostatic and analgesic activities. The compositions are
CC useful for the treatment of diseases associated with inflammation,
CC impaired airways, including lung disease and diseases whose secondary
CC effects afflict the lungs of a subject. They can be used for treating
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,
CC impeded respiration, respiratory distress syndrome, pain, cystic
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,
CC carcinomas, and cancers which may metastasise to the lungs, including
CC breast and prostate cancer. The reduction of the adenosine content of the
CC ONs reduces side effects. The A-containing ONs break down with the
CC release of deoxyadenosine which activates adenosine receptors causing
CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
CC nucleotide sequences given in the sequence listing from the present
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185
CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ
CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to
CC AAA33992) are specifically claimed ONs from the present invention. N.B.
CC Sequences given in the disclosure of the present invention do not match
CC up with their corresponding SEQ ID NO: sequences given in the sequence
CC listing
XX
SQ Sequence 19 BP; 0 A; 9 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 1.5%; Score 14.8; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 47 GCGCGCGCGCGTGC 64
Db 1 GCGCTCGCGCGTGC 18
|||||

RESULT 69
AAA82751/c
ID AAA82751 standard; DNA; 19 BP.
XX
AC AAA82751;
XX
DT 04-DEC-2000 (first entry)
XX
DE cdk3 ribozyme binding site #36.
XX
KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
OS Mammalia.
XX
PN WO200032765-A2.
XX
PD 08-JUN-2000.
XX
PF 06-DEC-1999; 99WO-US028772.
XX
PR 04-DEC-1998; 98US-0110954P.
XX
PA (IMMU-) IMMUSOL INC.
XX
PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
DR WPI; 2000-412314/35.
XX
PT New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
PT PCNA and Cyclin B1.
XX
PS Disclosure; Page 51; 109pp; English.
XX
CC The present invention relates to a hairpin or hammerhead ribozyme,
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
CC Representative examples of ribozyme recognition sites are given in
CC AAA82415 to AAA86787. The ribozyme of the invention is useful for
CC inhibiting restenosis by introduction of the ribozyme into cells. The
CC ribozyme is resistant to endonuclease activity and hence is efficient in
CC restenosis treatment
XX
SQ Sequence 19 BP; 2 A; 5 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 1.5%; Score 14.8; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 783 GAGTGGCAGATCACC 800
Db 19 GAGTGGCAGAACTCACC 2
|||||

RESULT 70
AAA82752/c
ID AAA82752 standard; DNA; 19 BP.
XX
AC AAA82752;
XX
DT 04-DEC-2000 (first entry)
XX
DE cdk3 ribozyme binding site #37.
```





KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 OS Homo sapiens.  
 OS Synthetic.  
 XX WO200130362-A2.  
 XX 03-MAY-2001.  
 XX 26-OCT-2000; 2000WO-US029500.  
 XX 26-OCT-1999; 99US-0161532P.  
 XX (IMMU-) IMMUSOL INC.  
 XX Robbins JM, Tritz R;  
 XX WPI; 2001-300427/31.  
 XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX Example 1; Page 96; 408pp; English.  
 XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX Sequence 19 BP; 2 A; 5 C; 6 G; 6 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.5%; Score 14.8; DB 1; Length 19;  
 Best Local Similarity 88.9%; Pred. No. 66;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 783 GAGTGGCAGAAATCACACC 800  
 Db 19 GAGTGGCAGAAATCACACC 2  
 |||||  
 RESULT 73  
 AAH57914/c  
 ID AAH57914 standard; DNA; 19 BP.  
 XX  
 AC AAH57914;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE Cell-cycle dependent kinase cdk3 ribozyme binding site SEQ ID NO:338.  
 XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;

KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX WO200130362-A2.  
 XX 03-MAY-2001.  
 XX 26-OCT-2000; 2000WO-US029500.  
 XX 26-OCT-1999; 99US-0161532P.  
 XX (IMMU-) IMMUSOL INC.  
 XX Robbins JM, Tritz R;  
 XX WPI; 2001-300427/31.  
 XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX Example 1; Page 96; 408pp; English.  
 XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX Sequence 19 BP; 3 A; 5 C; 5 G; 6 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.5%; Score 14.8; DB 1; Length 19;  
 Best Local Similarity 88.9%; Pred. No. 66;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 783 GAGTGGCAGAAATCACACC 800  
 Db 18 GAGTGGCAGAAATCACACC 1  
 |||||  
 RESULT 74  
 ABZ96407  
 ID ABZ96407 standard; DNA; 19 BP.  
 XX  
 AC ABZ96407;  
 XX  
 DT 17-OCT-2003 (first entry)  
 XX  
 DE Human C/EBP antisense fragment no.2267.  
 XX Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;

KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200285308-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 XX 23-APR-2002; 2002WO-US013135.  
 XX  
 XX 24-APR-2001; 2001US-0286137P.  
 XX  
 XX (EPIG-) EPIGENESIS PHARM INC.  
 PA  
 XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 XX WPI; 2003-229219/22.  
 DR  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 PS Disclosure; SEQ ID NO 11649; 872pp; English.  
 XX  
 CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 19 BP; 0 A; 9 C; 8 G; 2 T; 0 U; 0 Other;  
 Query Match 1.5%; Score 14.8; DB 1; Length 19;  
 Best Local Similarity 88.9%; Pred. No. 66;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 47 GCGCGCGCGCGCGCGCG 64  
 DB 1 GCGCTCGCGCGCGCTGCGG 18

RESULT 75  
 AAV62480/C  
 ID AAV62480 standard; mRNA; 17 BP.

XX AAV62480;

XX 18-JAN-1999 (first entry)

DE Antisense oligonucleotide to human MAP kinases, ERK-1 and ERK-2.

XX ERK-1; ERK-2; mitogen-activated protein kinase; MAP kinase; human;  
 KW inhibition; malignant; neoplastic growth; epithelial cell; mammal;

KW endothelial cell; antisense oligonucleotide; primary cancer;  
 KW metastatic cancer; breast cancer; prostate cancer; angiosarcoma;  
 KW endocrine tissue cancer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9844101-A1.  
 XX  
 PD 08-OCT-1998.  
 XX  
 XX 19-MAR-1998; 98WO-US005471.  
 XX  
 XX 28-MAR-1997; 97US-00827520.  
 PR  
 PR 01-APR-1997; 97US-00831994.  
 PR  
 PR 12-AUG-1997; 97US-00909742.  
 XX  
 XX (UJNY ) UNIV NEW YORK STATE RES FOUND.  
 PA  
 XX Sivaraman VS, Wang H, Malbon CC;  
 PI  
 XX WPI; 1998-557109/47.  
 DR  
 XX Treatment of e.g. breast or prostate cancer or angiosarcoma - by  
 PT administering antisense oligonucleotides to genes encoding mitogen-  
 PT activating protein kinases ERK1 and ERK2.  
 XX  
 PS Claim 5; Page 41; 59pp; English.

CC Sequences AAV62480 and AAV62481 represent antisense oligonucleotides to  
 CC the human mitogen-activated protein (MAP) kinases, ERK-1 and ERK-2.  
 CC These oligonucleotides are used in the method of the invention for  
 CC inhibiting malignant neoplastic growth of epithelial or endothelial cell  
 CC in a mammal. The method comprises administering to the mammal an  
 CC effective amount of an oligonucleotide complementary to part of the mRNA  
 CC for the MAP kinases, ERK-1 or ERK2 which is over-expressed in the mammal.  
 CC Also provided is a method for identifying and monitoring potentially  
 CC malignant neoplastic cells by measuring the levels of ERK1 and ERK2 mRNA  
 CC in epithelial or endothelial cells and comparing it to the levels from  
 CC normal cells of the same origin. Administration of the ERK1 and ERK2  
 CC antisense oligonucleotides to neoplastic endothelial or epithelial cells  
 CC inhibits over-expression of ERK1 and ERK2. This can be used to treat  
 CC epithelial and endothelial malignancies including primary or metastatic  
 CC cancers of e.g. the breast, prostate, other endocrine tissue or  
 CC angiosarcoma  
 XX  
 SQ Sequence 17 BP; 1 A; 10 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGCGCGCGCGCAGC 127  
 DB 16 TGGCGCGCGCGCGCGC 1

RESULT 76  
 AAV62481/C  
 ID AAV62481 standard; DNA; 17 BP.

XX AAV62481;

XX 18-JAN-1999 (first entry)

DE Antisense oligonucleotide to human MAP kinases, ERK-1 and ERK-2.

XX ERK-1; ERK-2; mitogen-activated protein kinase; MAP kinase; human;  
 KW inhibition; malignant; neoplastic growth; epithelial cell; mammal;  
 KW endothelial cell; antisense oligonucleotide; primary cancer;  
 KW metastatic cancer; breast cancer; prostate cancer; angiosarcoma;  
 KW endocrine tissue cancer; ss.

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OS Synthetic.
XX Homo sapiens.
XX WO9844101-A1.
XX PN
XX
XX PD 08-OCT-1998.
XX PF
XX PF 19-MAR-1998; 98WO-US005471.
XX PR 28-MAR-1997; 97US-00827520.
XX PR 01-APR-1997; 97US-00831994.
XX PR 12-AUG-1997; 97US-00909742.
XX
XX (UYNV) UNIV NEW YORK STATE RES FOUND.
XX PA
XX
XX PI Sivaraman VS, Wang H, Malbon CC;
XX
XX WPI; 1998-557109/47.
XX
XX Treatment of e.g. breast or prostate cancer or angiosarcoma - by
XX administering antisense oligonucleotides to genes encoding mitogen-
XX activating protein kinases ERK1 and ERK2.
XX
XX Claim 5; Page 41; 59pp; English.
XX
XX Sequences AAV62480 and AAV62481 represent antisense oligonucleotides to
XX the human mitogen-activated protein (MAP) kinases, ERK-1 and ERK-2.
XX These oligonucleotides are used in the method of the invention for
XX inhibiting malignant neoplastic growth of epithelial or endothelial cell
XX in a mammal. The method comprises administering to the mammal an
XX effective amount of an oligonucleotide complementary to part of the mRNA
XX for the MAP kinases, ERK-1 or ERK2 which is over-expressed in the mammal.
XX Also provided is a method for identifying and monitoring potentially
XX malignant neoplastic cells by measuring the levels of ERK1 and ERK2 mRNA
XX in epithelial or endothelial cells and comparing it to the levels from
XX normal cells of the same origin. Administration of the ERK1 and ERK2
XX antisense oligonucleotides to neoplastic endothelial or epithelial cells
XX inhibits over-expression of ERK1 and ERK2. This can be used to treat
XX epithelial and endothelial malignancies including primary or metastatic
XX cancers of e.g. the breast, prostate, other endocrine tissue or
XX angiosarcoma
XX
XX Sequence 17 BP; 1 A; 10 C; 5 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 1.4%; Score 14.4; DB 1; Length 17;
XX Best Local Similarity 93.8%; Pred. No. 61;
XX Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 112 TGGCGCGCGCGGCGC 127
XX Db ||||| ||||| ||
XX 16 TGGCGCGCGCGGCGGC 1
XX
XX RESULT 77
XX AAZ46753
XX ID AAZ46753 standard; DNA; 17 BP.
XX
XX AC AAZ46753;
XX
XX 27-MAR-2000 (first entry)
XX
XX Heterologous duplex flanking polynucleotide sequence.
XX
XX Genetic regulatory region; gene expression; DPRS; DPRS; gene therapy;
XX duplex polynucleotide regulatory sequence; transcription factor;
XX duplex flanking polynucleotide sequence; biopharmaceutical; cytostatic;
XX antiproliferative; ss.
XX
XX Synthetic.
XX
XX WO9963074-A2.
XX
XX 09-DEC-1999.
XX

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XX 04-JUN-1999; 99WO-US012515.
XX PF
XX PR 04-JUN-1998; 98US-0087945P.
XX PR 03-JUN-1999; 99US-00323244.
XX
XX (TWTE-) TM TECHNOLOGIES INC.
XX
XX Lane MJ, Benight AS, Faldasz BD;
XX
XX WPI; 2000-086976/07.
XX
XX DNA sequences useful for modifying the expression of genes by altering
XX flanking regions of regulatory regions.
XX
XX Claim 3; Page 21; 29pp; English.
XX
XX The invention provides DNA sequences comprising altered nucleotide
XX sequence in the regions flanking a genetic regulatory region, useful for
XX modifying the expression of genes. The DNA sequences comprise a duplex
XX polynucleotide regulatory sequence (DPRS) of sequences with at least 80%
XX homology to AA246751-52, adjacent to and 3' of a heterologous duplex
XX flanking polynucleotide sequence (DPRS) of sequences with at least 80%
XX homology to AA246753-54, where the heterologous DPRS confers a relatively
XX higher binding affinity for a ligand to the DPRS as compared to the
XX naturally occurring DPRSs. The methods and constructs can be used for
XX increasing or decreasing the expression levels of genes. They can be used
XX to provide binding or transcription factors and/or RNA polymerases to
XX increase the cellular output of a biopharmaceutical and increase the
XX expression of a gene in vivo, e.g. to induce premature death of unwanted
XX cells or cells that have lost control of their own growth. Alternatively,
XX they can be utilized to reduce and even entirely inhibit the expression
XX of undesirable genes whose protein products can lead to the manifestation
XX of pathological conditions
XX
XX Sequence 17 BP; 1 A; 5 C; 11 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 1.4%; Score 14.4; DB 1; Length 17;
XX Best Local Similarity 93.8%; Pred. No. 61;
XX Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 93 GGGCGCGCGAGCGGCGC 108
XX Db ||||| ||||| |||||
XX 1 GGGCGCGCGGCGGCGC 16
XX
XX RESULT 78
XX ABK01790
XX ID ABK01790 standard; RNA; 17 BP.
XX
XX AC ABK01790;
XX
XX 12-MAR-2002 (first entry)
XX
XX Human NIGO Zinzyme #112.
XX
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;
XX cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;
XX muscular; CD20; neurite growth inhibitor gene; NIGO; hammerhead ribozyme;
XX DNazyme; inozyme; G-cleaver; amberszyme; zinzyme; lymphoma; leukaemia;
XX B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;
XX human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;
XX MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;
XX inflammatory arthropathy; central nervous system injury;
XX cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;
XX chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;
XX Parkinson's disease; ataxia; Huntington's disease;
XX Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX

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PN W0200159103-A2.  
 XX 16-AUG-2001.  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX Claim 88; Page 97; 200pp; English.  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNzyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an ambzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a zinzyme molecule of the invention  
 XX Sequence 17 BP; 2 A; 6 C; 8 G; 0 T; 1 U; 0 Other;  
 SQ  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 115 CGGCGGGCGGCGTCG 130  
 Db 1 CGGCGGGCGGCGAGCAGC 16  
 RESULT 79  
 ABK01791  
 ID ABK01791 standard; RNA; 17 BP.  
 XX

AC ABK01791;  
 XX 12-MAR-2002 (first entry)  
 XX Human NOGO Zinzyme #113.  
 DE Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNzyme; inozyme; G-cleaver; ambzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS W0200159103-A2.  
 PN 16-AUG-2001.  
 XX 09-FEB-2001; 2001WO-US004273.  
 PF 11-FEB-2000; 2000US-0181797P.  
 XX 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 PR (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX Claim 88; Page 97; 200pp; English.  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNzyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an ambzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a zinzyme molecule of the invention  
 XX Sequence 17 BP; 2 A; 6 C; 8 G; 0 T; 1 U; 0 Other;  
 SQ

CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a zincyme molecule of the invention  
 XX  
 SQ Sequence 17 BP; 3 A; 6 C; 7 G; 0 T; 1 U; 0 Other;  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 61;  
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 115 CGCGCGCGCAGCTGC 130  
 Db 1 CGCGCGCAGCAGCUGC 16  
 RESULT 80  
 ABK00440/c  
 ID ABK00440 standard; RNA; 17 BP.  
 XX  
 AC ABK00440;  
 XX  
 DT 12-MAR-2002 (first entry)  
 DE Human NOGO Hammerhead Ribozyme #440.  
 XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNAzyme; inozyme; G-cleaver; amberzyme; zincyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 PF 09-FEB-2001; 2001WO-US004273.  
 XX  
 PR 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX  
 DR WPI; 2001-607195/69.  
 XX  
 PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 PS Claim 88; Page 73; 200pp; English.  
 PS  
 CC The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The

nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 DNAzyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 an amberzyme (cleaving RNA with an NGN triplet), a zincyme (cleaving RNA  
 with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 the cell and treat a patient having a condition associated with the level  
 of CD20. The treatment may further comprise the use of one or more  
 therapies. In particular, the CD20 targeting nucleic acid may be used to  
 treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 immune thrombocytopaenia, and inflammatory arthropathy. The NOGO  
 targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 cell and treat a patient having a condition associated with the level of  
 NOGO. The treatment may further comprise the use of one or more  
 therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 treat central nervous system (CNS) injury and cerebrovascular accident  
 (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 disease, muscular dystrophy, and/or other neurodegenerative disease  
 states which respond to the modulation of NOGO expression. The present  
 sequence is a hammerhead ribozyme of the invention  
 XX  
 SQ Sequence 17 BP; 4 A; 5 C; 1 G; 0 T; 7 U; 0 Other;  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 601 GGAGATGATCTCTGAAA 616  
 Db 16 GGAGATGATCTCTGAAA 1  
 RESULT 81  
 ABV85759/c  
 ID © ABV85759 standard; DNA; 17 BP.  
 XX  
 AC ABV85759;  
 XX  
 DT 11-DEC-2002 (first entry)  
 DE Human pp-GaNTase 10 scanning 17-mer SEQ ID NO:752.  
 XX  
 KW Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;  
 KW pp-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN EP1243660-A2.  
 XX  
 PD 25-SEP-2002.  
 XX  
 DR 25-JAN-2002; 2002EP-00001161.  
 XX  
 PT 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 30-JAN-2001; 2001WO-US000670.  
 PR 23-MAY-2001; 2001US-00864761.  
 PR 30-AUG-2001; 2001US-0315984P.



CC identity to them, and polypeptides encoded by the sequences or  
 CC polypeptides having 80% identity to the polypeptide sequences. The  
 CC invention is used to diagnose or treat viral disease or disease  
 CC characterized by development of tumour cells or cellular degeneration  
 XX  
 SQ Sequence 17 BP; 3 A; 4 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 463 CACAAGATGGATGATC 478  
 Db 16 CAAAAGATGGATGATC 1  
 RESULT 84  
 ABT39941/c  
 ID ABT39941 standard; DNA; 17 BP.  
 XX  
 AC ABT39941;  
 XX  
 DT 13-JUN-2003 (first entry)  
 XX  
 DE Tumour suppression related human fukutin oligo SEQ ID No 5578.  
 XX  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; protein chip; gene therapy; tumour suppression;  
 KW human fukutin; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003025175-A2.  
 XX  
 PD 27-MAR-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004208.  
 XX  
 PR 17-SEP-2001; 2001FR-00011978.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amson R, Tuijnder M;  
 XX  
 DR WPI; 2003-313353/30.  
 XX  
 PT New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; Page 686; 720pp; French.  
 XX  
 CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
 CC given in the specification, a sequence containing at least 15 consecutive  
 CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
 CC alignment, at least 80% identity to the 17 mer sequence, a sequence that  
 CC hybridizes to them under highly stringent conditions, or the complement  
 CC of any of them, or the corresponding RNA. The novel isolated nucleic  
 CC acids of the invention are useful as probes and primers for detecting,  
 CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
 CC component of a gene chip, in vitro as (anti)sense reagents, and for  
 CC production of recombinant polypeptides. Any of the nucleic acids,  
 CC polypeptides, vectors containing the nucleic acids, cells containing the  
 CC vector or antibodies directed against the polypeptides are useful for  
 CC preparation of pharmaceuticals for prevention and/or treatment of viral  
 CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC chips. The nucleic acid sequences of the invention can be used in gene

CC therapy. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention  
 XX  
 SQ Sequence 17 BP; 3 A; 4 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 463 CACAAGATGGATGATC 478  
 Db 16 CAAAAGATGGATGATC 1  
 RESULT 85  
 ABT39883/c  
 ID ABT39883 standard; DNA; 17 BP.  
 XX  
 AC ABT39883;  
 XX  
 DT 12-JUN-2003 (first entry)  
 XX  
 DE Tumour suppression related human fukutin oligo SEQ ID No 5520.  
 XX  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
 KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; protein chip; gene therapy; tumour suppression;  
 KW human fukutin; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003025175-A2.  
 XX  
 PD 27-MAR-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004208.  
 XX  
 PR 17-SEP-2001; 2001FR-00011978.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Telerman A, Amson R, Tuijnder M;  
 XX  
 DR WPI; 2003-313353/30.  
 XX  
 PT New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 PS Disclosure; Page 679; 720pp; French.  
 XX  
 CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
 CC given in the specification, a sequence containing at least 15 consecutive  
 CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
 CC alignment, at least 80% identity to the 17 mer sequence, a sequence that  
 CC hybridizes to them under highly stringent conditions, or the complement  
 CC of any of them, or the corresponding RNA. The novel isolated nucleic  
 CC acids of the invention are useful as probes and primers for detecting,  
 CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
 CC component of a gene chip, in vitro as (anti)sense reagents, and for  
 CC production of recombinant polypeptides. Any of the nucleic acids,  
 CC polypeptides, vectors containing the nucleic acids, cells containing the  
 CC vector or antibodies directed against the polypeptides are useful for  
 CC preparation of pharmaceuticals for prevention and/or treatment of viral  
 CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC chips. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention

Db 0 1 TCCAGGAGGGCCAG 16  
|||||

RESULT 87  
ADB04943  
ID ID ADB04943 standard; DNA; 17 BP.  
XX AC  
XX AC ADB04943;  
XX  
XX 20-NOV-2003 (first entry)  
XX  
XX Human MDZ12 scanning oligonucleotide SEQ ID 5929.  
XX  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
XX Homo sapiens.  
OS  
XX EP1281758-A2.  
PN  
XX  
XX  
XX 05-FEB-2003.  
PD  
XX  
XX 30-JUL-2002; 2002EP-00016874.  
PF  
XX  
XX 02-AUG-2001; 2001US-00922181.  
PR  
XX  
XX (AEOM-) AEOMICA INC.  
PA  
XX  
XX Shannon M, Gu Y, Nguyen C;  
PI  
XX WPI; 2003-423107/40.  
PX  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MDZ3,  
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.  
PT  
XX  
XX Example 8; SEQ ID NO 5929; 103pp; English.  
PS  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is  
CC encoded at chromosome 7q22.1. MDZ4 is encoded at chromosome 6p21.3-22.2,  
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome  
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MDZ3,  
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
CC  
XX  
XX Sequence 17 BP; 4 A; 4 C; 7 G; 2 T; 0 U; 0 Other;  
SQ

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 61;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 639 TCCAGGAGAGGTCAC 654  
|||||  
Db 2 TCCAGGAGAGGTCAC 17

RESULT 88  
ACD59733/c  
ID ID ACD59733 standard; RNA; 17 BP.  
XX



AC AD59733;  
 XX 24-SEP-2003 (first entry)  
 XX HCV DNase substrate sequence #1479.  
 XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNase; inozyme; zinzyme;  
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.  
 XX  
 OS Hepatitis C virus.  
 XX  
 XX WO200281494-A1.  
 PN 17-OCT-2002.  
 XX  
 XX 26-MAR-2002; 2002WO-US009187.  
 XX  
 XX 26-MAR-2001; 2001US-00817879.  
 PR 08-JUN-2001; 2001US-00877478.  
 PR 08-JUN-2001; 2001US-0296876P.  
 PR 24-OCT-2001; 2001US-0335059P.  
 PR 05-DEC-2001; 2001US-0337055P.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (NACE/) MACEJAK D.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (MORR/) MORRISSEY D.  
 PA (PAVC/) PAVCO P.  
 PA (LEEP/) LEE P.  
 PA (DRAP/) DRAPER K.  
 PA (ROBE/) ROBERTS E.  
 XX  
 PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
 PI Draper K, Roberts E;  
 XX WPI; 2003-2292207/22.  
 XX  
 XX Novel compound useful for treating cirrhosis, liver failure,  
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
 PT infection.  
 XX  
 XX Claim 1; Page 260; 387pp; English.  
 XX  
 XX The present invention relates to nucleic acid molecules which modulate  
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNasezymes,  
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
 CC DNA. The nucleic acids may be used to modulate the expression of HBV  
 CC genes and HBV viral replication. Also disclosed is a method for screening  
 CC compounds and/or potential therapies directed against HBV, and compounds  
 CC that modulate the expression and/or replication of HCV. The compounds and  
 CC methods of the invention are useful for the treatment of degenerative and  
 CC disease states related to HBV and HCV infection, replication and gene  
 CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNasezyme or minus strand DNasezyme sequences disclosed in the present  
 CC invention  
 XX  
 XX Sequence 17 BP; 0 A; 3 C; 9 G; 0 T; 5 U; 0 Other;  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Mismatches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Query 608 GATCTGAATGAATCA 623  
 DB 1 GATCTGAATGAATCA 16  
 RESULT 90  
 ADB43670/c  
 ID ADB43670 standard; DNA; 17 BP.  
 XX ADB43670;  
 AC ADB43670;  
 XX 18-DEC-2003 (revised)

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 795 CACACACCCCGAAGA 810  
 DB 16 CACACACCCCGACGA 1  
 RESULT 89  
 ACC67622  
 ID ACC67622 standard; DNA; 17 BP.  
 XX  
 AC ACC67622;  
 XX  
 XX 01-JUL-2003 (first entry)  
 XX  
 DE Murine oligonucleotide associated with tumour suppression, SEQ ID 4869.  
 XX  
 KW Cytostatic; virucide; neuroprotective; neurotropic; neuroleptic; murine;  
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; ss.  
 XX  
 OS Mus musculus.  
 XX  
 XX WO2003025176-A2.  
 PN  
 XX 27-MAR-2003.  
 PD  
 XX 17-SEP-2002; 2002WO-IB004210.  
 PF  
 XX 17-SEP-2001; 2001PR-00011979.  
 PR  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA  
 XX Telerman A, Anson R, Tuijnder M;  
 PI  
 XX WPI; 2003-333167/31.  
 DR  
 XX  
 XX New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumours and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX  
 XX Disclosure; Page 600; 738pp; French.  
 XX  
 XX The present invention relates to murine oligonucleotides (ACC6754-  
 CC ACC68806), which are associated with tumour suppression, tumour  
 CC reversion, apoptosis and virus resistance. The oligonucleotides are  
 CC useful as (1) as probes and primers for detecting, identifying,  
 CC quantifying and/or amplifying nucleic acid, e.g. as one component of a  
 CC gene chip; in vitro as (anti)sense reagents; and (2) for production of a  
 CC recombinant polypeptides. The oligonucleotides are useful for preparation  
 CC of pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development of tumours or cell degeneration,  
 CC specifically cancer but also Alzheimer's disease and schizophrenia  
 XX  
 XX Sequence 17 BP; 7 A; 3 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Mismatches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Query 608 GATCTGAATGAATCA 623  
 DB 1 GATCTGAATGAATCA 16  
 RESULT 90  
 ADB43670/c  
 ID ADB43670 standard; DNA; 17 BP.  
 XX ADB43670;  
 AC ADB43670;  
 XX 18-DEC-2003 (revised)

DT 04-DEC-2003 (first entry)  
 XX Tumour suppression/reversion associated nucleotide #3993.  
 DE  
 XX  
 XX cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
 KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
 KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;  
 KW diagnosis.  
 XX  
 XX Homo sapiens.  
 OS  
 XX WO2003040369-A2.  
 PN  
 XX  
 XX 15-MAY-2003.  
 PD  
 XX  
 XX 17-SEP-2002; 2002WO-IB004219.  
 PF  
 XX  
 XX 17-SEP-2001; 2001FR-00011981.  
 PR  
 XX  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA  
 XX  
 XX Telerman A, Amson R, Tuijnder M;  
 PI  
 XX  
 XX WPI; 2003-441574/41.  
 DR  
 XX  
 XX New nucleic acid encoding human prostate membrane-specific antigen,  
 PT useful e.g. for treatment of tumors and viral infection, also related  
 PT polypeptide and antibodies.  
 XX  
 XX Disclosure; Page 498; 771pp; French.  
 PS  
 XX  
 XX The invention relates to the isolation of 6327 nucleotide sequences,  
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
 CC sequence having at least 80% identity, after optimal alignment, with the  
 CC nucleotides, a sequence that hybridizes under stringent conditions with  
 CC the nucleotides, or the complement, or corresponding RNA, of the  
 CC nucleotides. The nucleotides are used as probes or primers for detecting,  
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
 CC sense and antisense sequences, of nucleotides involved in tumour  
 CC suppression or reversion, apoptosis and or viral resistance, to produce  
 CC recombinant polypeptides, and to prepare transgenic animals, as  
 CC experimental models. The nucleotides (also vectors containing them and  
 CC cells containing the vectors), the encoded polypeptides and antibodies  
 CC (Ab) against the polypeptide are useful for prevention and/or treatment  
 CC of viral infections or diseases characterized by development of tumours  
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
 CC Analysis of the expression of the nucleotides can be used for diagnosis  
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
 CC also be used to screen for their specific interactive molecules,  
 CC potentially useful for treating diseases associated with abnormal  
 CC expression of the nucleotides.  
 XX  
 XX Sequence 17 BP; 3 A; 4 C; 2 G; 8 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 463 CACAAGATGGATGATC 478  
 DB 16 CAAAAGATGGATGATC 1  
 RESULT 91  
 ADB44198/c  
 ID ADB44198 standard; DNA; 17 BP.  
 AC  
 XX ADB44198;  
 XX  
 XX 18-DEC-2003 (first entry)  
 DT  
 XX Tumour suppression/reversion associated nucleotide #4521.  
 DE  
 XX

KW cytotatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
 KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
 KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;  
 KW diagnosis.  
 XX  
 XX Homo sapiens.  
 OS  
 XX WO2003040369-A2.  
 PN  
 XX  
 XX 15-MAY-2003.  
 PD  
 XX  
 XX 17-SEP-2002; 2002WO-IB004219.  
 PF  
 XX  
 XX 17-SEP-2001; 2001FR-00011981.  
 PR  
 XX  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA  
 XX  
 XX Telerman A, Amson R, Tuijnder M;  
 PI  
 XX  
 XX WPI; 2003-441574/41.  
 DR  
 XX  
 XX New nucleic acid encoding human prostate membrane-specific antigen,  
 PT useful e.g. for treatment of tumors and viral infection, also related  
 PT polypeptide and antibodies.  
 XX  
 XX Disclosure; Page 560; 771pp; French.  
 PS  
 XX  
 XX The invention relates to the isolation of 6327 nucleotide sequences,  
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
 CC sequence having at least 80% identity, after optimal alignment, with the  
 CC nucleotides, a sequence that hybridizes under stringent conditions with  
 CC the nucleotides, or the complement, or corresponding RNA, of the  
 CC nucleotides. The nucleotides are used as probes or primers for detecting,  
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
 CC sense and antisense sequences, of nucleotides involved in tumour  
 CC suppression or reversion, apoptosis and or viral resistance, to produce  
 CC recombinant polypeptides, and to prepare transgenic animals, as  
 CC experimental models. The nucleotides (also vectors containing them and  
 CC cells containing the vectors), the encoded polypeptides and antibodies  
 CC (Ab) against the polypeptide are useful for prevention and/or treatment  
 CC of viral infections or diseases characterized by development of tumours  
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
 CC Analysis of the expression of the nucleotides can be used for diagnosis  
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
 CC also be used to screen for their specific interactive molecules,  
 CC potentially useful for treating diseases associated with abnormal  
 CC expression of the nucleotides.  
 XX  
 XX Sequence 17 BP; 4 A; 4 C; 2 G; 7 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.4%; Score 14.4; DB 1; Length 17;  
 Best Local Similarity 93.8%; Pred. No. 61;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 463 CACAAGATGGATGATC 478  
 DB 16 CAAAAGATGGATGATC 1  
 RESULT 92  
 AAV16021  
 ID AAV16021 standard; DNA; 18 BP.  
 XX  
 XX AAV16021;  
 XX  
 XX 21-MAY-1998 (first entry)  
 DT  
 XX PCR primer used to identify Sox-2 gene mutations in mice.  
 DE  
 XX Mutation; Sox-2; mutational screening; recessive; phenotypic alteration;  
 KW mouse model; FGF-4; PCR primer; amplify; ss.  
 XX  
 XX Synthetic.  
 OS

```

OS Mus sp.
XX WO9744485-A1.
XX 27-NOV-1997.
XX 16-MAY-1997; 97WO-GB001354.
XX 17-MAY-1996; 96GB-00010355.
XX (HEXA-) HEXAGEN TECHNOLOGY LTD.
XX Goodfellow PN;
XX WPI; 1998-018536/02.
XX Identification of mutation(s) in genes of interest - without prior
XX observation of phenotypic alteration in the mutated organism or cell.
XX Example 6; Page 43; 66pp; English.
XX PCR primers AAV16019-36 were used to identify mutations in Sox-2 using
XX the method of the invention. The method comprises testing a nucleic acid
XX sample from a mutated organism for a mutation in a gene of interest
XX without the prior observation of a phenotypic alteration in the mutated
XX organism resulting from the mutation. Sox-2 is a member of the Sox gene
XX family, and is involved in transcriptional regulation of the FGF-4 gene.
XX FGF-4 codes for a signalling protein whose expression is essential for
XX postimplantation mouse development, and, at later embryonic stages, for
XX limb patterning and growth. Mutagenised mice in which a Sox-2 mutation is
XX identified can be studied and provide a mouse model for a mutant human
XX Sox-2 gene. The method provides mutational screening based on genomic and
XX genetic techniques rather than on phenotypic observation. The method
XX identifies and characterises genes via mutagenesis to identify genes
XX encoding products which may have therapeutic benefit. The method also
XX identifies the presence of mutations in a gene which do not rely solely
XX upon prior matching of a gene with a disease. Heterozygotic organisms can
XX also be screened to identify those carrying a mutation in a copy of a
XX gene of interest even though the gene may be recessive and therefore
XX causes no phenotypic alteration
XX
XX Sequence 18 BP; 4 A; 4 C; 10 G; 0 T; 0 U; 0 Other;
SQ Query Match 1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 69;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 18 CGCGCGCGGAGGAGCC 33
DB 1 CGCGCGCGGAGGAGCC 16

RESULT 93
AAZ69854/c
ID AAZ69854 standard; DNA; 18 BP.
XX
XX AAZ69854;
XX
XX 10-SEP-2001 (first entry)
XX
XX Human biallelic marker upstream amplification primer SEQ ID NO:4210.
XX
XX Human genome; biallelic marker; high density disequilibrium map;
XX genomic map; haplotype; phenotype; polymorphic base; genotyping;
XX haplotyping; hybridisation; identification; characterisation;
XX amplification; single nucleotide polymorphism; SNP; PCR primer;
XX diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9954500-A2.
XX
XX 28-OCT-1999.

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XX 21-APR-1999; 99WO-IB000822.
XX
XX 21-APR-1998; 98US-0082614P.
XX
XX 23-NOV-1998; 98US-0109732P.
XX
XX (GEST ) GENSET.
XX
XX Cohen D, Blumenfeld M, Chumakov I;
XX WPI; 2000-013267/01.
XX
XX Novel biallelic markers used to construct a high density disequilibrium
XX map of the human genome.
XX
XX Claim 8; Page 1128; 2745pp; English.
XX
XX AAZ65654 to AAZ69578 represent human biallelic markers from the present
XX invention, which contain a polymorphic base at position 24 of their
XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX primers for the biallelic markers. The biallelic markers of the invention
XX have a variety of uses; they can be used for high density mapping of the
XX human genome, and in complex association studies and haplotyping studies
XX which are useful in determining the genetic basis for disease states.
XX Compositions and methods of the invention can also be useful for the
XX identification of the targets for the development of pharmaceutical
XX agents and diagnostic methods, as well as the characterisation of the
XX differential efficacious responses to and side effects from
XX pharmaceutical agents acting on a disease as well as other treatment.
XX N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
XX 3367, are not actually given a sequence in the Sequence Listing from the
XX present invention
XX
XX Sequence 18 BP; 2 A; 8 C; 0 G; 8 T; 0 U; 0 Other;
SQ Query Match 1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 69;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 549 GGAAGGAGGAATAGG 564
DB 17 GGAAGGAGGAATATG 2

RESULT 94
AAZ43280
ID AAZ43280 standard; DNA; 18 BP.
XX
XX AAZ43280;
XX
XX 11-FEB-2000 (first entry)
XX
XX Murine Sox2 gene PCR primer 3.
XX
XX Screening; mutation; treatment; disease; drug discovery; PCR primer; ss.
XX
XX Mus musculus.
XX
XX US5994075-A.
XX
XX 30-NOV-1999.
XX
XX 16-MAY-1997; 97US-00857946.
XX
XX 17-MAY-1996; 96US-0017824P.
XX
XX (HEXA-) HEXAGEN TECHNOLOGY LTD.
XX
XX Goodfellow PN;
XX
XX WPI; 2000-038255/03.
XX
XX Identifying a mutation in a gene of interest in an organism useful for

```

PT identifying genes encoding products which may have therapeutic benefits.  
 PS Example 7; Col 67-68; 70pp; English.  
 XX  
 CC This invention describes a novel mutational screening method based on  
 CC genomic and genetic techniques to identify and characterize a mutation in  
 CC a gene of interest without first selecting a phenotypic characteristic.  
 CC The screening methods are useful for identifying genes encoding products  
 CC which may have therapeutic benefit for treating human or animal diseases.  
 CC The method can be used for the DNA mutation screening of a class or a  
 CC family of genes providing a rapid assay for identifying mutant genes. The  
 CC methods produce organisms which can be used for drug discovery e.g.  
 CC providing a model for the study and treatment of a disease state, allow  
 CC in vitro assessment of drug activity and interbreeding of mutants which  
 CC allow investigation of gene interactions in the overall phenotype. A  
 CC range of phenotypes associated with different mutations, and specified  
 CC mutations in a gene of interest can be determined. The method can be  
 CC adapted to screen for a mutation in two or more genes of interest in an  
 CC organism. The methods allow mutations in a gene of interest to be  
 CC identified without having to rely on matching a gene with a disease.  
 CC AA243260-243421 represent PCR primers used in the method of the invention  
 XX  
 SQ Sequence 18 BP; 4 A; 4 C; 10 G; 0 T; 0 U; 0 Other;

Query Match 1.4%; Score 14.4; DB 1; Length 18;  
 Best Local Similarity 93.8%; Pred. No. 69;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 18 CGCGCGCGGAGGAGCC 33  
 Db 1 CGCGCGCGGAGGAGCC 16

RESULT 95  
 AAA05265  
 ID AAA05265 standard; DNA; 18 BP.  
 XX  
 AC AAA05265;  
 XX  
 DT 19-MAY-2000 (first entry)  
 XX  
 DE PCR primer B-F used in Sox-2 ampimer generation.  
 XX  
 KW PCR primer; Sox-2; Sox-3; T gene; Tyrosinase; MGF; SV; c-kit; Tryp-1;  
 KW Pax-6; mutation detection; therapeutic target identification; mouse;  
 KW mast cell growth factor; ss.  
 XX  
 OS Mus sp.  
 XX  
 PN US6015670-A.  
 XX  
 PD 18-JAN-2000.  
 XX  
 PF 14-NOV-1997; 97US-00970740.  
 XX  
 PR 17-MAY-1996; 96US-0017824P.  
 PR 16-MAY-1997; 97US-00857946.  
 XX  
 PA (HEXA-) HEXAGEN TECHNOLOGY LTD.  
 XX  
 FI Goodfellow PN;  
 XX  
 DR WPI; 2000-181139/16.  
 XX  
 XX Detecting mutations in selected genes, useful e.g. for identifying  
 PT therapeutic targets or products, by analyzing DNA in mutated embryonic  
 PT stem cells without phenotypic characterization.  
 XX  
 PS Example 6; Col 32; 66pp; English.

XX PCR primers AAA05245-A05406 are used to generate ampimers from the mouse  
 CC Sox-3 gene, Sox-2 gene, T gene, tyrosinase gene, Tryp-1 gene, Sry gene,  
 CC MGF (mast cell growth factor) gene, c-kit gene, and the Pax-6 gene. The

CC primers are used in a method for the identification of a mutation in a  
 CC selected gene in a tissue without the prior observation of a phenotypic  
 CC alteration in the mutated organism or cell. The method is used to  
 CC identify mutations in a selected gene that encode products of potential  
 CC therapeutic activity or that are potential targets, particularly where  
 CC the gene of interest has been identified as a candidate gene by  
 CC positional cloning. Other applications are determining functions of genes  
 CC ; detecting the range of phenotypes associated with different mutations  
 CC in a particular gene and identification of particular mutations. Animals  
 CC containing an identified mutation are used as models for studying  
 CC diseases or their treatment, and cells from them for in vitro assessment  
 CC of drug action. Interbreeding of mutant mice is used to investigate  
 CC genetic interaction in the overall phenotype

SQ Sequence 18 BP; 4 A; 4 C; 10 G; 0 T; 0 U; 0 Other;

Query Match 1.4%; Score 14.4; DB 1; Length 18;  
 Best Local Similarity 93.8%; Pred. No. 69;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 18 CGCGCGCGGAGGAGCC 33  
 Db 1 CGCGCGCGGAGGAGCC 16

RESULT 96  
 AAZ93475  
 ID AAZ93475 standard; DNA; 18 BP.  
 XX  
 AC AAZ93475;  
 XX  
 DT 24-JUL-2000 (first entry)  
 XX  
 DE TRADD antisense oligonucleotide.  
 XX  
 KW TRADD; TNF; tumour necrosis factor; NF-kappa-B; apoptosis;  
 KW programmed cell death; antisense; inhibition; treatment; therapy;  
 KW septic shock; inflammation; cancer; antiinflammatory; human; ss.  
 XX  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT misc\_binding complement (1. .18)  
 FT /\*tag= a  
 FT /note= "Complementary to bases 641-624 of the human TRADD  
 FT sequence described in GENESEQ record AAZ93431"  
 XX  
 PN WO200012527-A1.

XX  
 PD 09-MAR-2000.  
 XX  
 PF 25-AUG-1999; 99WO-US019614.  
 XX  
 PR 28-AUG-1998; 98US-00143212.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Monia BP, Cowsert LM;  
 XX  
 DR WPI; 2000-237846/20.  
 XX  
 PT New antisense compounds that limit the expression of human TRADD protein,  
 PT useful in the treatment and diagnosis of cancer, inflammation and septic  
 PT shock.  
 XX  
 PS Example 15; Page 52; 85pp; English.

XX The intracellular protein TRADD has been identified as a critical link  
 CC between tumour necrosis factor (TNF) receptor binding and downstream  
 CC activation of NF-kappa-B. Overexpression of native TRADD activates NF-  
 CC kappa-B in the absence of TNF and dominant negative mutants of TRADD  
 CC block TNF-induced NF-kappa-B activation. A second effect of TNF in many  
 CC cell types is the induction of apoptosis (programmed cell death). TRADD

CC overexpression has been shown to mimic TNF induction of apoptosis as  
 CC well. Data indicates that TRADD and other downstream effector proteins  
 CC are the rate limiting step of TNF action and would therefore serve as the  
 CC most efficient targets for inhibition of TNF-induced events. Antisense  
 CC oligonucleotides capable of inhibiting TRADD function may therefore be  
 CC useful in a number of therapeutic, diagnostic and research applications.  
 CC Inhibiting expression of TRADD by contacting human cells or tissues with  
 CC the antisense compound may be used to treat a disease or condition  
 CC associated with TRADD expression, for example, septic shock,  
 CC inflammation, or cancer. TRADD antisense oligonucleotides of varying  
 CC inhibitory capabilities are listed in GENESSEQ records AA293438-Z93517.  
 CC The antisense oligonucleotides exhibit enhanced inhibitory capabilities  
 CC when they have 2'-MOE wings and a deoxy gap  
 XX  
 SQ Sequence 18 BP; 0 A; 5 C; 12 G; 1 T; 0 U; 0 Other;

Query Match 1.4%; Score 14.4; DB 1; Length 18;  
 Best Local Similarity 93.8%; Pred. No. 69;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGGCGGGCGGCGC 127  
 Db 3 TGGCGGCGGGCGGCGC 18

RESULT 97  
 AAD38944  
 ID AAD38944 standard; DNA; 18 BP.  
 AC AAD38944;  
 DT 23-SEP-2002 (first entry)  
 XX Human Her-2 antisense oligonucleotide, ISIS #27971.  
 KW Human; Her-2; epidermal growth factor receptor 2; infection; cancer;  
 KW hyperproliferative disorder; prophylaxis; inflammation; antisense;  
 KW tumour; gene therapy; phosphorothioate backbone; ss.  
 OS Homo sapiens.  
 OS Synthetic.

Key	Location/Qualifiers
modified_base 1..18	/*tag= a
	/mod_base= OTHER
	/note= "Phosphorothioate backbone"
modified_base 1..4	/*tag= b
	/mod_base= OTHER
	/note= "2'methoxyethyl nucleotides"
modified_base 1	/*tag= d
	/mod_base= m5c
modified_base 2	/*tag= e
	/mod_base= m5c
modified_base 6	/*tag= f
	/mod_base= m5c
modified_base 7	/*tag= g
	/mod_base= m5c
modified_base 15..18	/*tag= c
	/mod_base= OTHER
	/note= "2'methoxyethyl nucleotides"
modified_base 15	/*tag= h
	/mod_base= m5c
modified_base 17	/*tag= i
	/mod_base= m5c

FT modified\_base 18  
 FT /\*tag= j  
 FT /mod\_base= m5c  
 XX  
 PN WO200222636-A1.  
 XX  
 PD 21-MAR-2002.  
 XX  
 PF 12-SEP-2001; 2001WO-US028572.  
 XX  
 PR 15-SEP-2000; 2000US-00663834.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett CF, Cowser LM;  
 XX  
 XX WPI; 2002-471192/50.  
 XX  
 DT Novel antisense oligonucleotide which modulates the expression of Human  
 FT Epidermal Growth Factor receptor, Her2, is useful for treating tumors  
 PT inflammation or to prevent infection in humans.  
 XX  
 PS Claim 1; Page 89; 116pp; English.  
 XX

CC The invention relates to antisense compounds targetted to a nucleic acid  
 CC molecule encoding Her2 (human Epidermal Growth Factor receptor 2) that  
 CC specifically hybridises with and inhibits the expression of Her2.  
 CC Antisense compounds of the invention are used for treating diseases or  
 CC conditions associated with Her2 such as hyperproliferative disorders e.g.  
 CC lung, breast, gastric, oesophageal, colon, bladder, salivary, neural or  
 CC cardiac cancer. They are also useful prophylactically e.g. to prevent or  
 CC delay infection, inflammation and tumour formation. The invention is also  
 CC used in gene therapy. The present sequence is an antisense  
 CC oligonucleotide targetted to human Her-2

SQ Sequence 18 BP; 3 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 1.4%; Score 14.4; DB 1; Length 18;  
 Best Local Similarity 93.8%; Pred. No. 69;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 775 CCTTTCAGAGTGGCA 790  
 Db 1 CCTTTCAGAGTGGCA 16

RESULT 98  
 AAF45310/c  
 ID AAF45310 standard; DNA; 15 BP.  
 XX  
 AC AAF45310;  
 XX

DT 30-MAR-2001 (first entry)  
 XX  
 DE IGFBP2 oligonucleotide #149.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.

XX Homo sapiens.  
 OS  
 PN WO200078341-A1.  
 XX  
 PD 28-DEC-2000.  
 XX  
 XX 21-JUN-2000; 2000WO-AU000693.  
 XX

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PR 21-JUN-1999; 99US-0140345P.
XX (MURD-) MURDOCH CHILDRENS RES INST.
PA
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenase nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX Example 6; Page 35; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloide, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 0 A; 9 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 1.4%; Score 14; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 114 GCGGCGGCGGCGAGC 127
DB 15 GCGGCGGCGGCGAGC 2

RESULT 99
AAF45312/c
ID AAF45312 standard; DNA; 15 BP.
XX
XX AAF45312;
AC
XX
XX 30-MAR-2001 (first entry)
DE IGFBP2 oligonucleotide #151.
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cystostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
OS Homo sapiens.
XX
PN WO2000078341-A1.
XX
PD 28-DEC-2000.
XX
XX 21-JUN-2000; 2000WO-AU000693.
XX
XX 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST.
PA
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenase nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX Example 6; Page 35; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloide, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 0 A; 9 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 1.4%; Score 14; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 GCGGCGGCGGCGAGC 126
DB 14 GCGGCGGCGGCGAGC 1

RESULT 100
ABK56817
ID ABK56817 standard; RNA; 17 BP.
XX
XX ABK56817;
AC
XX
XX 02-JUL-2002 (first entry)
DT
XX
XX Human CLCA1 gene enzymatic nucleic acid #1188.
DE
XX
KW Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;
KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;
KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;
KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;
KW acetylcysteine.
XX
XX Homo sapiens.
OS
XX WO200211674-A2.
PN
XX 14-FEB-2002.
PD
XX
XX 09-AUG-2001; 2001WO-US024970.
XX
XX 09-AUG-2000; 2000US-0224383P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX (SYNT ) SYNTEX USA LLC.
XX (THOW/) THOMPSON J.
XX
XX Thompson J, Mcswiggen J, McKenzie T, Ayers D, Szymkowski DE;
XX Grupe A;
XX
XX WPI; 2002-217145/27.
XX

```

PT Enzymatic polynucleotide that down regulates expression of chloride  
PT channel calcium activated gene, useful for treating Chronic obstructive  
PT pulmonary disease (COPD), chronic bronchitis and asthma.  
XX  
PS Claim 4; Page 82; 152pp; English.  
XX  
CC The invention relates to enzymatic nucleic acid molecules that down  
CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
CC useful as pharmaceutical agents for treating conditions such as chronic  
CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
CC that are related to or will respond to the levels of CLCA1 in a cell or  
CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
CC hence, are useful for treatment of a patient having a condition  
CC associated with the level of CLCA1, where the invention further comprises  
CC the use of one or more therapies under conditions suitable for the  
CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
CC nucleic acids of the invention are also used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of CLCA1 RNA in a cell. This sequence represents an  
CC enzymatic nucleic acid molecule of the invention  
XX  
SQ Sequence 17 BP; 5 A; 3 C; 6 G; 0 T; 3 U; 0 Other;  
  
Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 78.6%; Pred. No. 72;  
Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
  
QY 977 AGAATGTCAGCTGT 990  
DB 4 AGAACUGCAGCUGU 17  
  
RESULT 101  
ABK56483  
ID ABK56483 standard; RNA; 17 BP.  
XX  
AC ABK56483;  
XX  
DT 02-JUL-2002 (first entry)  
XX  
DE Human CLCA1 gene enzymatic nucleic acid #854.  
XX  
KW Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
KW acetylcysteine.  
XX  
OS Homo sapiens.  
XX  
PN WO200211674-A2.  
XX  
PD 14-FEB-2002.  
XX  
PF 09-AUG-2001; 2001WO-US024970.  
XX  
PR 09-AUG-2000; 2000US-0224383P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (SYNT ) SYNTAX USA LLC.  
PA (THOM/) THOMPSON J.  
XX  
PI Thompson J, Mcswiggen J, Mckenzie T, Ayers D, Szymkowski DE;  
PI Grupe A;  
XX  
DR WPI; 2002-217145/27.  
XX  
PT Enzymatic polynucleotide that down regulates expression of chloride  
PT channel calcium activated gene, useful for treating Chronic obstructive  
PT pulmonary disease (COPD), chronic bronchitis and asthma.

XX  
PS Claim 4; Page 72; 152pp; English.  
XX  
CC The invention relates to enzymatic nucleic acid molecules that down  
CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
CC useful as pharmaceutical agents for treating conditions such as chronic  
CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
CC that are related to or will respond to the levels of CLCA1 in a cell or  
CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
CC hence, are useful for treatment of a patient having a condition  
CC associated with the level of CLCA1, where the invention further comprises  
CC the use of one or more therapies under conditions suitable for the  
CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
CC nucleic acids of the invention are also used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of CLCA1 RNA in a cell. This sequence represents an  
CC enzymatic nucleic acid molecule of the invention  
XX  
SQ Sequence 17 BP; 5 A; 1 C; 5 G; 0 T; 6 U; 0 Other;  
  
Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.4%; Pred. No. 72;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
  
QY 604 GATGGATCTGAAAT 617  
DB 1 GAUGGAUCUGAAAU 14  
  
RESULT 102  
ABK55895  
ID ABK55895 standard; RNA; 17 BP.  
XX  
AC ABK55895;  
XX  
DT 02-JUL-2002 (first entry)  
XX  
DE Human CLCA1 gene enzymatic nucleic acid #266.  
XX  
KW Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
KW acetylcysteine.  
XX  
OS Homo sapiens.  
XX  
PN WO200211674-A2.  
XX  
PD 14-FEB-2002.  
XX  
PF 09-AUG-2001; 2001WO-US024970.  
XX  
PR 09-AUG-2000; 2000US-0224383P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (SYNT ) SYNTAX USA LLC.  
PA (THOM/) THOMPSON J.  
XX  
PI Thompson J, Mcswiggen J, Mckenzie T, Ayers D, Szymkowski DE;  
PI Grupe A;  
XX  
DR WPI; 2002-217145/27.  
XX  
PT Enzymatic polynucleotide that down regulates expression of chloride  
PT channel calcium activated gene, useful for treating Chronic obstructive  
PT pulmonary disease (COPD), chronic bronchitis and asthma.  
XX  
SQ Claim 4; Page 57; 152pp; English.

CC The invention relates to enzymatic nucleic acid molecules that down  
CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
CC useful as pharmaceutical agents for treating conditions such as chronic  
CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
CC that are related to or will respond to the levels of CLCA1 in a cell or  
CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
CC hence, are useful for treatment of a patient having a condition  
CC associated with the level of CLCA1, where the invention further comprises  
CC the use of one or more therapies under conditions suitable for the  
CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
CC nucleic acids of the invention are also used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of CLCA1 RNA in a cell. This sequence represents an  
CC enzymatic nucleic acid molecule of the invention  
XX  
SQ Sequence 17 BP; 5 A; 1 C; 5 G; 0 T; 6 U; 0 Other;

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.6%; Pred. No. 72;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 604 GATGGATCTGAAT 617  
Db 2 GAUGGAUCUGAAU 15  
|||||:|||||:

RESULT 103  
ABK56990  
ID ABK56990 standard; RNA; 17 BP.  
XX  
AC ABK56990;

XX 02-JUL-2002 (first entry)  
DT Human CLCA1 gene enzymatic nucleic acid #1361.  
DE  
XX Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
KW acetylcysteine.  
XX Homo sapiens.  
OS  
XX WO200211674-A2.  
PN 14-FEB-2002.  
XX  
XX 09-AUG-2001; 2001WO-US024970.  
PF  
XX 09-AUG-2000; 2000US-0224383P.  
PR  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (SYNT ) SYNTEX USA LLC.  
PA (THOM/) THOMPSON J.  
XX  
XX Thompson J, Mcswiggen J, McKenzie T, Ayers D, Szymkowski DE;  
PI Grupe A;  
PI  
XX WPI; 2002-217145/27.  
DR  
XX Enzymatic polynucleotide that down regulates expression of chloride  
PT channel calcium activated gene, useful for treating Chronic obstructive  
PT pulmonary disease (COPD), chronic bronchitis and asthma.  
XX  
PS Claim 4; Page 88; 152pp; English.  
CC The invention relates to enzymatic nucleic acid molecules that down  
CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
CC by cleaving RNA derived from the genes. The nucleic acid sequences are

CC useful as pharmaceutical agents for treating conditions such as chronic  
CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
CC that are related to or will respond to the levels of CLCA1 in a cell or  
CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
CC hence, are useful for treatment of a patient having a condition  
CC associated with the level of CLCA1, where the invention further comprises  
CC the use of one or more therapies under conditions suitable for the  
CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
CC nucleic acids of the invention are also used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of CLCA1 RNA in a cell. This sequence represents an  
CC enzymatic nucleic acid molecule of the invention  
XX  
SQ Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;

Qy 977 AGAAGCTGCAGCTGT 990  
Db 3 AGAACUGCAGCUGU 16  
|||||:|||||:

RESULT 104  
ABK57363  
ID ABK57363 standard; RNA; 17 BP.  
XX  
AC ABK57363;

XX 02-JUL-2002 (first entry)  
DT Human CLCA1 gene enzymatic nucleic acid #1734.  
DE  
XX Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
KW acetylcysteine.  
XX Homo sapiens.  
OS  
XX WO200211674-A2.  
PN 14-FEB-2002.  
XX  
XX 09-AUG-2001; 2001WO-US024970.  
PF  
XX 09-AUG-2000; 2000US-0224383P.  
PR  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (SYNT ) SYNTEX USA LLC.  
PA (THOM/) THOMPSON J.  
XX  
XX Thompson J, Mcswiggen J, McKenzie T, Ayers D, Szymkowski DE;  
PI Grupe A;  
PI  
XX WPI; 2002-217145/27.  
DR  
XX Enzymatic polynucleotide that down regulates expression of chloride  
PT channel calcium activated gene, useful for treating Chronic obstructive  
PT pulmonary disease (COPD), chronic bronchitis and asthma.  
XX  
PS Claim 4; Page 112; 152pp; English.  
CC The invention relates to enzymatic nucleic acid molecules that down  
CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
CC useful as pharmaceutical agents for treating conditions such as chronic  
CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
CC fibrosis, obstructive bowel syndrome and any other diseases or conditions



CC that are related to or will respond to the levels of CLCA1 in a cell or  
CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
CC hence, are useful for treatment of a patient having a condition  
CC associated with the level of CLCA1, where the invention further comprises  
CC the use of one or more therapies under conditions suitable for the  
CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
CC nucleic acids of the invention are also used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of CLCA1 RNA in a cell. This sequence represents an  
CC enzymatic nucleic acid molecule of the invention  
XX  
SQ Sequence 17 BP; 6 A; 2 C; 4 G; 0 T; 5 U; 0 Other;  
  
Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.4%; Pred. No. 72;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
  
QY 604 GATGGATCTGAAT 617  
DB 4 GAUGGAUCUGAAAU 17  
|||||:|||||  
|:|||||:|||||  
  
RESULT 105  
ABX77386/c  
ID ABX77386 standard; DNA; 17 BP.  
XX  
AC ABX77386;  
XX  
DT 09-APR-2003 (first entry)  
XX  
DE Human lrbA gene 5' splice donor site for Exon 5.  
XX  
KW LPS responsive CHS1/beige-like anchor gene; lrbA; cancer;  
KW tumour growth inhibitor; cytostatic; gene therapy; tumour; melanoma;  
KW chronic myelogenous leukaemia; adenocarcinoma; lymphoblastic leukaemia;  
KW lung carcinoma; ds; human; mouse.  
XX  
OS Homo sapiens.  
XX  
PN WO200278614-A2.  
XX  
PD 10-OCT-2002.  
XX  
PF 02-APR-2002; 2002WO-US010350.  
XX  
PR 02-APR-2001; 2001US-0280107P.  
XX  
PA (UYSP-) UNIV SOUTH FLORIDA.  
XX  
PI Kerr WG, Wang J;  
XX  
PS WPI; 2003-103233/09.  
XX  
DR A new isolated LPS-responsive and Beige-like Anchor polypeptide useful  
XX for inhibiting growth of tumors in a patient.  
XX  
PS Example 5; Page 45; 79pp; English.  
XX  
CC This invention relates to a novel isolated LPS-responsive and Beige-like  
CC Anchor (lrbA) polypeptide which may be used to inhibit tumour growth. The  
CC invention also comprises an interfering RNA sequence which may be used to  
CC suppress lrbA function and inhibit tumour growth. The polypeptide and  
CC small interfering RNA (siRNA) molecules of the invention may have  
CC cytostatic activity and may be used in gene therapy. Also disclosed is a  
CC method for inhibiting tumour growth in a patient comprising administering  
CC to the patient an agent that suppresses lrbA function in the patient. The  
CC agent may be a polynucleotide fragment of an lrbA gene or its variant, or  
CC a polypeptide fragment of an lrbA gene or its variant or an RNA sequence  
CC that interferes with the expression of the lrbA gene. The method of the  
CC invention may be used to treat a patient who is suffering from a tumour  
CC or a cancer, such as breast, prostate, melanoma, cervical or colorectal  
CC cancer, chronic myelogenous leukemia, adenocarcinoma, lymphoblastic

CC leukemia or lung carcinoma. The present sequence represents a DNA  
CC sequence used within the scope of the invention  
XX  
SQ Sequence 17 BP; 6 A; 2 C; 5 G; 4 T; 0 U; 0 Other;  
  
Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 72;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 892 TACTTACTGCAGCA 905  
DB 16 TACTTACTGCAGCA 3  
|||||:|||||  
|:|||||:|||||  
  
RESULT 106  
ABZ61433  
ID ABZ61433 standard; RNA; 17 BP.  
XX  
AC ABZ61433;  
XX  
DT 21-MAR-2003 (first entry)  
XX  
DE Human H-Ras DNzyme target #224.  
XX  
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;  
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;  
KW anti-rheumatic; cancer; AIDS; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200297114-A2.  
XX  
PD 05-DEC-2002.  
XX  
PF 29-MAY-2002; 2002WO-US016840.  
XX  
PR 29-MAY-2001; 2001US-0294140P.  
XX  
PR 06-JUN-2001; 2001US-0296249P.  
XX  
PR 10-SEP-2001; 2001US-0318471P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI McSwiggen J;  
XX  
PS WPI; 2003-140484/13.  
XX  
DR Novel short interfering RNA and enzymatic nucleic acid useful for  
XX treating cancer, modulates the expression of a nucleic acid encoding  
XX HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.  
XX  
PS Claim 58; Page 115; 185pp; English.  
XX  
CC The invention relates to a novel short interfering RNA (siRNA) nucleic  
CC acid molecule or an enzymatic nucleic acid molecule, that modulates  
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,  
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic  
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-  
CC rheumatic activity. The nucleic acid molecules are useful for reducing  
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are  
CC also useful for treating breast, ovarian, colorectal, lung, prostate,  
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences  
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ65520 - ABZ65524,  
CC ABZ65530 - ABZ65585 represent substrate/target sequences for the human  
CC ribozymes of the invention  
XX  
SQ Sequence 17 BP; 2 A; 7 C; 3 G; 0 T; 5 U; 0 Other;  
  
Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 64.3%; Pred. No. 72;  
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;  
  
QY 767 CCCAGTGCCTTTT 780  
|||||:|||||

Db 4 CCCAGUGCCUUUU 17

RESULT 107  
AAS21619/C  
ID AAS21619 standard; DNA; 18 BP.  
XX  
XX AAS21619;  
AC  
XX  
XX 21-NOV-2001 (first entry)  
XX Human Survivin antisense oligonucleotide #84.  
DE  
XX Survivin; human; mouse; cytostatic; antisense oligonucleotide;  
KW hyperproliferative condition; cancer; apoptosis; cytokinesis; ss.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX WO200157059-A1.  
PN  
XX  
XX 09-AUG-2001.  
PD  
XX 30-JAN-2001; 2001WO-US002939.  
XX  
XX 02-FEB-2000; 2000US-00496694.  
XX  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX Bennett CF, Ackermann EJ, Swayze BE, Cowse LM;  
PI WPI; 2001-488863/53.  
XX  
XX Novel antisense compounds for modulating the expression of Survivin and  
PT treatment of cancer.  
XX  
XX Example 17; Page 57; 120pp; English.  
PS  
XX The invention relates to antisense oligonucleotides targeted to a nucleic  
XX acid molecule encoding human Survivin, where the antisense  
CC oligonucleotide inhibits the expression of human Survivin. These  
CC antisense oligonucleotides are used in the treatment of an animal  
CC suffering from a disease or condition associated with Survivin, e.g. a  
CC hyperproliferative condition such as cancer, and comprises administering  
CC a therapeutically or prophylactically effective amount of the antisense  
CC oligonucleotide so that expression of Survivin is inhibited. The  
CC oligonucleotides can also be used to treat a human suffering from a  
CC disease or condition characterised by a reduction in apoptosis comprising  
CC administering the antisense oligonucleotide to a human. In addition, the  
CC antisense oligonucleotide and a cytotoxic chemotherapeutic agent e.g.  
CC taxol or cisplatin, can be used to modulate apoptosis, cytokinesis or the  
CC cell cycle, or inhibit the proliferation in a cancer cell by contacting  
CC the cell with the antisense oligonucleotide. AAS21521-AAS21768 represent  
CC Survivin nucleic acids, and antisense oligonucleotides targeted to  
CC Survivin, used in the method of the invention  
XX  
SQ Sequence 18 BP; 2 A; 11 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 1.4%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 112 TGGCGGCGCGGCA 125  
| | | | | | | | | |  
Db 16 TGGCGGCGCGGCA 3

RESULT 108  
ABL43560/C  
ID ABL43560 standard; DNA; 18 BP.  
XX  
XX ABL43560;  
AC  
XX

11-APR-2002 (first entry)  
Human chromosome 1p36-35 PCR primer SEQ ID NO:604.  
Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;  
PCR primer; ss.  
Homo sapiens.  
JP2001321190-A.  
20-NOV-2001.  
12-MAR-2001; 2001JP-00068285.  
10-MAR-2000; 2000JP-00066716.  
(RIKA ) RIKAGAKU KENKYUSHO.  
(GENO-) GENOTEX YG.  
WPI; 2002-144136/19.  
Arraying genome clones.  
Claim 4; Page 16; 528pp; Japanese.  
The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is detected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are cultured and the resultant cultures are amplified by using the above primer; (g) signals are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL42957 to ABL45322 represent PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634 represent PCR primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention  
SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 1.4%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 983 GCAGCTGTGCACAT 996  
| | | | | | | | | |  
Db 15 GCAGCTGTGCACAT 2

RESULT 109  
AAX71558  
ID AAX71558 standard; RNA; 17 BP.  
XX  
XX AAX71558;  
AC  
XX  
XX 28-JUL-1999 (first entry)  
DT  
XX Human KDR VEGF receptor hammerhead ribozyme substrate #570.  
DE  
XX Vascular endothelial growth factor receptor; VEGF receptor; flk-1;  
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;

```

KW foetal liver kinase 1; ss.
XX
OS Homo sapiens.
XX
PN WO9715662-A2.
XX
XX 01-MAY-1997.
PD
XX
XX 25-OCT-1996; 96WO-US017480.
PF
XX
XX 26-OCT-1995; 95US-0005974P.
PR
XX 11-JAN-1996; 96US-00584040.
PR
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (CHIR ) CHIRON CORP.
XX
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
PI
XX WPI; 1997-259017/23.
DR
XX
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
PT rheumatoid arthritis, etc., in a human patient.
PT
XX
XX Claim 4; Page 114; 218pp; English.
PS
XX
XX The present invention describes nucleic acid molecules which modulate the
CC synthesis, expression and/or stability of a mRNA encoding 1 or more
CC receptors of vascular endothelial growth factor (VEGF). A patient
CC (preferably human) having a condition associated with the level of the
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
CC treated by administering the nucleic acid molecule or the expression
CC vector to the patient. AAX67275 to AAX75752 represent specific examples
CC of nucleic acid molecules from the present invention
XX
SQ Sequence 17 BP; 3 A; 2 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 78;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
QY 921 TTTCCTGATTGGAGGAG 937
Db 1 UUUCCUGAUGGAGGAG 17
RESULT 110
AAX62926
ID AAX62926 standard; RNA; 17 BP.
XX
XX AAX62926;
AC
XX
XX 16-JUL-1999 (first entry)
DT
XX
XX Delta-9 desaturase hamerhead ribozyme target SEQ ID NO:801.
DE
XX
XX Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;
KW granule bound starch synthase; hamerhead ribozyme; hairpin ribozyme;
KW modulation; gene expression; transgenic plant; cleavage; canola plant;
KW caffeine synthesis; coffee plant; nicotine production; tobacco;
KW fruit ripening; flower pigmentation; lignin production; ss.
XX
XX Zea mays.
OS
XX
XX WO9710328-A2.
PN
XX
XX 20-MAR-1997.
PD
XX
XX 12-JUL-1996; 96WO-US011689.
PF
XX
XX 13-JUL-1995; 95US-0001135P.
PR
KW foetal liver kinase 1; ss.
XX
OS Homo sapiens.
XX
PN WO9715662-A2.
XX
XX 01-MAY-1997.
PD
XX
XX 25-OCT-1996; 96WO-US017480.
PF
XX
XX 26-OCT-1995; 95US-0005974P.
PR
XX 11-JAN-1996; 96US-00584040.
PR
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (CHIR ) CHIRON CORP.
XX
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
PI
XX WPI; 1997-259017/23.
DR
XX
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
PT rheumatoid arthritis, etc., in a human patient.
PT
XX
XX Claim 4; Page 114; 218pp; English.
PS
XX
XX The present invention describes nucleic acid molecules which modulate the
CC synthesis, expression and/or stability of a mRNA encoding 1 or more
CC receptors of vascular endothelial growth factor (VEGF). A patient
CC (preferably human) having a condition associated with the level of the
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
CC treated by administering the nucleic acid molecule or the expression
CC vector to the patient. AAX67275 to AAX75752 represent specific examples
CC of nucleic acid molecules from the present invention
XX
SQ Sequence 17 BP; 3 A; 2 C; 6 G; 0 T; 6 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 78;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
QY 921 TTTCCTGATTGGAGGAG 937
Db 1 UUUCCUGAUGGAGGAG 17
RESULT 111
AAF07259
ID AAF07259 standard; DNA; 17 BP.
XX
XX AAF07259;
AC
XX
XX 16-FEB-2001 (first entry)
DT
XX
XX Hammerhead ribozyme substrate #3516.
DE
XX
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
KW
XX
XX Homo sapiens.
OS
XX
XX WO200061729-A2.
PN
XX
XX 19-OCT-2000.
PD
XX
XX 11-APR-2000; 2000WO-US009721.
PF
XX
XX 12-APR-1999; 99US-0129390P.
PR
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Blatt L, Zwick M, Pavco P, Mcswiggen J;
PI
XX
XX WPI; 2000-647423/62.
DR
XX
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
PT
XX
XX Claim 54; Page 136; 164pp; English.
PS
XX
```

CC The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha

XX Sequence 17 BP; 3 A; 6 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 78;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 148 GAGCTGCACGAGCTGCC 164  
 |||||  
 Db 1 GAGCTGGTCCAGCAGCC 17

## RESULT 112

AAAF02617/C

ID AA02617 standard; DNA; 17 BP.

XX AC

XX AA02617;

XX 16-FEB-2001 (first entry)

XX Hammerhead ribozyme substrate #912.

DE Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
 KW interferon alpha; ss.

XX Homo sapiens.

XX WO200061729-A2.

XX 19-OCT-2000.

PF 11-APR-2000; 2000WO-US009721.

XX 12-APR-1999; 99US-0129390P.

XX (RIBO-) RIBOZYME PHARM INC.

XX Blatt L, Zwick M, Pavco P, Mcswiggen J;

XX WPI; 2000-647423/62.

XX Enzymatic and antisense nucleic acid inhibition of repressor genes,  
 PT useful for producing e.g. granulocyte colony stimulating factor protein,  
 PT interferon alpha and erythropoietin.

XX Claim 37; Page 76; 164pp; English.

XX The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha

XX Sequence 17 BP; 0 A; 10 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 78;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 77 GGGAGGGGGGAGCGGG 93

|||  
 Db 17 GGGAGGGGGGAGCGCG 1

## RESULT 113

ABK00815

ID ABK00815 standard; RNA; 17 BP.

XX AC

XX ABK00815;

XX 12-MAR-2002 (first entry)

XX Human NOGO Inozyme #85.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW musclar; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; ambersyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

XX Homo sapiens.

OS Synthetic.

OS WO200159103-A2.

XX 16-AUG-2001.

XX 09-FEB-2001; 2001WO-US004273.

XX 11-FEB-2000; 2000US-0181797P.

XX 28-FEB-2000; 2000US-0185516P.

XX 06-MAR-2000; 2000US-0187128P.

XX (RIBO-) RIBOZYME PHARM INC.

XX (BLAT/) BLATT L.

XX (MCSW/) MCSWIGGEN J.

XX (CHOW/) CHOWRIRA B M.

XX Blatt L, Mcswiggen J, Chowrira BM;

XX WPI; 2001-607195/69.

XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.

XX Claim 88; Page 79; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an Inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an ambersyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the

CC presence of a divalent cation that is preferably  $Mg^{2+}$ . Furthermore, the  
CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
CC cell and treat a patient having a condition associated with the level of  
CC NOGO. The treatment may further comprise the use of one or more  
CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
CC treat central nervous system (CNS) injury and cerebrovascular accident  
CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
CC disease, muscular dystrophy, and/or other neurodegenerative disease  
CC states which respond to the modulation of NOGO expression. The present  
CC sequence is an inozyme of the invention  
XX  
SQ Sequence 17 BP; 0 A; 9 C; 6 G; 0 T; 2 U; 0 Other;  
Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 78;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
QY 388 CCCGCCGCCGAGCGTC 404  
Db 1 CCCGCCGCCGCGUGUC 17  
|||||  
RESULT 114  
ABN08013/c  
ID ABN08013 standard; DNA; 17 BP.  
XX  
AC ABN08013;  
XX  
DT 29-MAY-2002 (first entry)  
XX  
DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8005.  
DE  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200192524-A2.  
XX  
PD 06-DEC-2001.  
XX  
PF 25-MAY-2001; 2001WO-US016981.  
XX  
PR 26-MAY-2000; 2000US-0207456P.  
PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.  
PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 05-FEB-2001; 2001WO-US000670.  
XX  
XX (AEOM-) AEOMICA INC.  
XX  
PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
PS Disclosure; SEQ ID NO 8005; 214pp; English.

XX  
CC The present invention describes a human genome-derived myosin-like  
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
CC nucleic acids can be used as probes to detect, characterize and quantify  
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
CC capture probes for surface-enhanced laser desorption/ionisation, as  
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMPLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
SQ Sequence 17 BP; 3 A; 6 C; 6 G; 2 T; 0 U; 0 Other;  
Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 78;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 147 GGAGCTGGACCGAGCTGC 163  
Db 17 GGAGCTGCTCCAGCTGC 1  
|||||  
RESULT 115  
ABN06311/c  
ID ABN06311 standard; DNA; 17 BP.  
XX  
AC ABN06311;  
XX  
DT 29-MAY-2002 (first entry)  
XX  
DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6303.  
XX  
KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200192524-A2.  
XX  
PD 06-DEC-2001.  
XX  
PF 25-MAY-2001; 2001WO-US016981.  
XX  
PR 26-MAY-2000; 2000US-0207456P.  
PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.  
PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 05-FEB-2001; 2001WO-US000670.  
XX  
XX 2001US-0266860P.

```
PA (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognise hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 6303; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
SQ Sequence 17 BP; 2 A; 7 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 25 GGAGGAGCCCTCAAGGC 41
Db 17 GGAGGTCCTCCACAGGC 1
RESULT 116
ABQ63388
ID ABQ63388 standard; DNA; 17 BP.
XX
XX AC ABQ63388;
XX
XX 20-AUG-2002 (first entry)
XX
XX Human KTOM1a portion (ABQ63232) probe # 101.
XX
XX Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;
XX gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
XX kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
XX
XX Homo sapiens.
XX
XX WO200224750-A2.
XX
XX 28-MAR-2002.
XX
XX 21-SEP-2001; 2001WO-US029656.
XX
XX 21-SEP-2000; 2000US-0234687P.
XX
XX 27-SEP-2000; 2000US-0236359P.
XX
XX 04-OCT-2000; 2000GB-00024263.
XX
XX 30-JAN-2001; 2001WO-US000661.
XX
XX 30-JAN-2001; 2001WO-US000662.
PA (AEOM-) AEOMICA INC.
XX
XX Zhang J;
XX
XX WPI; 2002-479509/51.
XX
XX New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic
XX acids encoding the protein, useful for treating subjects having defects
XX in KTOM1 which can manifest as cancer of the kidney, or as a disorder of
XX e.g., liver or bone.
XX
XX Example 2; Page 170; 418pp; English.
XX
XX The invention relates to a novel isolated nucleic acid encoding human
XX KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the
XX invention has cytostatic activity. The nucleotide may have a use in gene
XX therapy. The KTOM1 nucleic acids may be used to diagnose, treat or
XX monitor a disease caused by altered expression of human KTOM1.
XX Compositions comprising the nucleic acids, proteins or antibodies may be
XX used to treat subjects having defects in KTOM1 which can manifest as
XX cancer of the kidney, as well as a disorder of liver, bone marrow, brain,
XX heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta
XX function. The sequence represents a probe used in the invention to scan
XX the nt 1-1001 portion of human KTOM1a (ABQ63232)
XX
XX Sequence 17 BP; 0 A; 4 C; 10 G; 3 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 63 CGCGGAGCTGCTCGGG 79
Db 1 CGCGGGGTGCTCGGG 17
RESULT 117
ABQ63389
ID ABQ63389 standard; DNA; 17 BP.
XX
XX AC ABQ63389;
XX
XX 20-AUG-2002 (first entry)
XX
XX Human KTOM1a portion (ABQ63232) probe # 102.
XX
XX Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;
XX gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;
XX kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.
XX
XX Homo sapiens.
XX
XX WO200224750-A2.
XX
XX 28-MAR-2002.
XX
XX 21-SEP-2001; 2001WO-US029656.
XX
XX 21-SEP-2000; 2000US-0234687P.
XX
XX 27-SEP-2000; 2000US-0236359P.
XX
XX 04-OCT-2000; 2000GB-00024263.
XX
XX 30-JAN-2001; 2001WO-US000661.
XX
XX 30-JAN-2001; 2001WO-US000662.
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PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 30-JAN-2001; 2001WO-US000670.  
 PR 23-MAY-2001; 2001US-00864761.  
 PR 28-AUG-2001; 2001US-0315676P.

FA (AEOM-) AEOMICA INC.

XX Zhang J;

XX WPI; 2002-479509/51.

XX New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic  
 PT acids encoding the protein, useful for treating subjects having defects  
 PT in KTOM1 which can manifest as cancer of the kidney, or as a disorder of  
 PT e.g., liver or bone.

XX Example 2; Page 171; 418pp; English.

XX The invention relates to a novel isolated nucleic acid encoding human  
 CC KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the  
 CC invention has cytostatic activity. The nucleotide may have a use in gene  
 CC therapy. The KTOM1 nucleic acids may be used to diagnose, treat or  
 CC monitor a disease caused by altered expression of human KTOM1.  
 CC Compositions comprising the nucleic acids, proteins or antibodies may be  
 CC used to treat subjects having defects in KTOM1 which can manifest as  
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,  
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta  
 CC function. The sequence represents a probe used in the invention to scan  
 CC the nt 1-1001 portion of human KTOM1a (ABQ63232)

XX Sequence 17 BP; 1 A; 3 C; 10 G; 3 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 78;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 64 GCGGACTGCTGCGGGA 80  
 ||||| ||||| |||||  
 Db 1 GCGGGTTGCTGCGGGA 17

RESULT 118

ABQ63390  
 ID ABQ63390 standard; DNA; 17 BP.

XX ABQ63390;

XX 20-AUG-2002 (first entry)

XX Human KTOM1a portion (ABQ63232) probe # 103.

XX Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.

XX Homo sapiens.

XX WO200224750-A2.

XX 28-MAR-2002.

XX 21-SEP-2001; 2001WO-US029656.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 30-JAN-2001; 2001WO-US000670.  
 PR 23-MAY-2001; 2001US-00864761.  
 PR 28-AUG-2001; 2001US-0315676P.

XX (AEOM-) AEOMICA INC.

XX Zhang J;

XX WPI; 2002-479509/51.

XX New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic  
 PT acids encoding the protein, useful for treating subjects having defects  
 PT in KTOM1 which can manifest as cancer of the kidney, or as a disorder of  
 PT e.g., liver or bone.

XX Example 2; Page 171; 418pp; English.

XX The invention relates to a novel isolated nucleic acid encoding human  
 CC KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the  
 CC invention has cytostatic activity. The nucleotide may have a use in gene  
 CC therapy. The KTOM1 nucleic acids may be used to diagnose, treat or  
 CC monitor a disease caused by altered expression of human KTOM1.  
 CC Compositions comprising the nucleic acids, proteins or antibodies may be  
 CC used to treat subjects having defects in KTOM1 which can manifest as  
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,  
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta  
 CC function. The sequence represents a probe used in the invention to scan  
 CC the nt 1-1001 portion of human KTOM1a (ABQ63232)

XX Sequence 17 BP; 1 A; 3 C; 10 G; 3 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 78;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 65 CGGACTGCTGCGGAG 81  
 ||||| ||||| |||||  
 Db 1 CGGGTTGCTGCGGAG 17

RESULT 119

ABV90095/c  
 ID ABV90095 standard; DNA; 17 BP.

XX ABV90095;

XX 23-DEC-2002 (first entry)

XX Human POSHL1 scanning oligonucleotide SEQ ID NO 808.

XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;  
 KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;  
 KW gene therapy; transgenic; ss.

XX Homo sapiens.

XX EP1239051-A2.

XX 11-SEP-2002.

XX 28-JAN-2002; 2002EP-00001165.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

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PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 23-MAY-2001; 2001US-00864761.
PR 10-OCT-2001; 2001US-0328205P.
XX (AEOM-) AEOMICA INC.
PA Shannon M;
XX WPI; 2002-684061/74.
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX Example 2; SEQ ID NO 808; 60pp + Sequence Listing; English.
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (SI, ABB83999), a sequence having 65% sequence identity to (SI),
CC (SI) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention. Note: The present sequence did not form part of the
CC printed specification, but is based on sequence information supplied to
CC Derwent by the European Patent Office
XX SQ Sequence 17 BP; 2 A; 9 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 114 GCGGCGGCGGCGAGCTGC 130
Db 17 GCGGCTGGGCGAGCTGC 1
RESULT 120
ABV90096/c
ID ABV90096 standard; DNA; 17 BP.
XX AC ABV90096;
XX 23-DEC-2002 (first entry)
XX Human POSHL1 scanning oligonucleotide SEQ ID NO 809.
XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX OS Homo sapiens.
XX EP1239051-A2.
XX 11-SEP-2002.
XX 28-JAN-2002; 2002EP-00001165.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 30-JAN-2001; 2001WO-US000670.
XX 23-MAY-2001; 2001US-00864761.
XX 10-OCT-2001; 2001US-0328205P.
XX (AEOM-) AEOMICA INC.
PA Shannon M;
XX WPI; 2002-684061/74.
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX Example 2; SEQ ID NO 809; 60pp + Sequence Listing; English.
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (SI, ABB83999), a sequence having 65% sequence identity to (SI),
CC (SI) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention. Note: The present sequence did not form part of the
CC printed specification, but is based on sequence information supplied to
CC Derwent by the European Patent Office
XX SQ Sequence 17 BP; 2 A; 10 C; 4 G; 1 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 113 GCGGCGGCGGCGAGCTG 129
Db 17 GCGGCTGGGCGAGCTG 1
RESULT 121
ACC53863
ID ACC53863 standard; DNA; 17 BP.
XX AC ACC53863;
XX 27-JUN-2003 (first entry)
XX Human tumour suppressor sequence #2630.
XX ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
KW tumour regression; apoptosis; virus resistance; diagnosis;
KW cellular degeneration.
XX OS Homo sapiens.
XX FR2826373-A1.
XX

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PD 27-DEC-2002.
PF 20-JUN-2001; 2001FR-00008139.
XX
PR 20-JUN-2001; 2001FR-00008139.
XX
PA (MOLE-) MOLECULAR ENGINES LAB SA.
XX
PI Tuijnder M, Telerman A, Amson R;
XX
DR WPI; 2003-250498/25.
XX
PT New nucleic acid sequences associated with tumor suppression, regression,
PT apoptosis or virus resistance are useful to diagnose and treat viral
PT disease, development of tumor cells and cell degeneration.
XX
PS Claim 1; Page 647; 798pp; French.
XX
XX This sequence represents an isolated nucleic acid sequence associated
CC with tumour suppression or regression, apoptosis or virus resistance. The
CC invention relates to these sequences or sequences having at least 80%
CC identity to them, and polypeptides encoded by the sequences or
CC polypeptides having 80% identity to the polypeptide sequences. The
CC invention is used to diagnose or treat viral disease or disease
CC characterized by development of tumour cells or cellular degeneration
XX
SQ Sequence 17 BP; 8 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 608 GATCTGAATCAATCAC 624
Db 1 GATCTGAATCAATAC 17
RESULT 122
ABZ59899
ID ABZ59899 standard; RNA; 17 BP.
XX
XX ABZ59899;
AC
XX
XX 21-MAR-2003 (first entry)
XX
XX Human K-Ras DNzyme substrate #11.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosstatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
XX Homo sapiens.
OS
XX WO200297114-A2.
PN
XX 05-DEC-2002.
PD
XX 29-MAY-2002; 2002WO-US016840.
PF
XX 29-MAY-2001; 2001US-0294140P.
PR
XX 06-JUN-2001; 2001US-0296249P.
PR
XX 10-SEP-2001; 2001US-0318471P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Mcswiggen J;
PI
XX WPI; 2003-140484/13.
DR
XX Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
XX Claim 58; Page 85; 185pp; English.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59899 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 1 A; 5 C; 10 G; 0 T; 1 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 115 CGCGCGCGCGCAGTCGCG 131
Db 1 CGCGCGCGCGCAGUGGCG 17
RESULT 123
ABZ59894
ID ABZ59894 standard; RNA; 17 BP.
XX
XX ABZ59894;
AC
XX
XX 21-MAR-2003 (first entry)
XX
XX Human K-Ras DNzyme substrate #6.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosstatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
XX Homo sapiens.
OS
XX WO200297114-A2.
PN
XX 05-DEC-2002.
PD
XX 29-MAY-2002; 2002WO-US016840.
PF
XX 29-MAY-2001; 2001US-0294140P.
PR
XX 06-JUN-2001; 2001US-0296249P.
PR
XX 10-SEP-2001; 2001US-0318471P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Mcswiggen J;
PI
XX WPI; 2003-140484/13.
DR
XX Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
XX Claim 58; Page 85; 185pp; English.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
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CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 3 A; 5 C; 9 G; 0 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 115 CGCGCGGCGCAGCTGCG 131
Db 1 CGCGCGGCGCAGCAGCG 17
RESULT 124
ABZ64592
ID ABZ64592 standard; RNA; 17 BP.
AC ABZ64592;
XX
XX 21-MAR-2003 (first entry)
DE Human HER2 DNazyme substrate #49.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosstatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
XX Homo sapiens.
XX
XX WO200297114-A2.
PN
PD 05-DEC-2002.
XX
XX 29-MAY-2002; 2002WO-US016840.
XX
XX 29-MAY-2001; 2001US-0294140P.
PR
XX 06-JUN-2001; 2001US-0296249P.
PR
XX 10-SEP-2001; 2001US-0318471P.
PR
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Mcswiggen J;
PI
XX WPI; 2003-140484/13.
DR
XX
XX Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
XX Claim 4; Page 134; 185pp; English.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 2 A; 9 C; 6 G; 0 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 281 CCCACGAGCGCCGAGC 297
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Db 1 CCCCGGAGCGCGGAGC 17
RESULT 125
ABZ61368
ID ABZ61368 standard; RNA; 17 BP.
XX
XX AC ABZ61368;
XX
XX 21-MAR-2003 (first entry)
DT
XX DE Human H-Ras DNazyme target #159.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosstatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
XX Homo sapiens.
XX
XX WO200297114-A2.
PN
PD 05-DEC-2002.
XX
XX 29-MAY-2002; 2002WO-US016840.
XX
XX 29-MAY-2001; 2001US-0294140P.
PR
XX 06-JUN-2001; 2001US-0296249P.
PR
XX 10-SEP-2001; 2001US-0318471P.
PR
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Mcswiggen J;
PI
XX WPI; 2003-140484/13.
DR
XX
XX Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
XX Claim 58; Page 114; 185pp; English.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 0 A; 6 C; 11 G; 0 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 115 CGCGCGGCGCAGCTGCG 131
Db 1 CGCGCGGCGGCGCGCG 17
RESULT 126
ABZ64550/c
ID ABZ64550 standard; RNA; 17 BP.
XX
XX AC ABZ64550;
XX
XX 21-MAR-2003 (first entry)
DT
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XX DE Human HER2 DNzyme substrate #7.
XX KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
XX KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytosolic; anti-HIV;
XX KW anti-rheumatic; cancer; AIDS; ss.
XX OS Homo sapiens.
XX FN WO200297114-A2.
XX PD -05-DEC-2002.
XX PF 29-MAY-2002; 2002WO-US016940.
XX PR 29-MAY-2001; 2001US-0294140P.
XX PR 06-JUN-2001; 2001US-0296249P.
XX PR 10-SEP-2001; 2001US-0318471P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Mcswiggen J;
XX DR WPI; 2003-140484/13.
XX PT Novel short interfering RNA and enzymatic nucleic acid useful for
XX PT treating cancer, modulates the expression of a nucleic acid encoding
XX PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX PS Claim 4; Page 133; 185pp; English.
XX CC The invention relates to a novel short interfering RNA (siRNA) nucleic
XX CC acid molecule or an enzymatic nucleic acid molecule, that modulates
XX CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
XX CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
XX CC acid molecule of the invention has cytosolic, anti-HIV, and anti-
XX CC rheumatic activity. The nucleic acid molecules are useful for reducing
XX CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
XX CC also useful for treating breast, ovarian, colorectal, lung, prostate,
XX CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
XX CC shown in AB259889 - AB262216, AB264544 - AB265531, AB266520 - AB266524,
XX CC AB266530 - AB266595 represent substrate/target sequences for the human
XX CC ribozymes of the invention
XX SQ Sequence 17 BP; 1 A; 9 C; 7 G; 0 T; 0 U; 0 Other;
    Query Match 1.4%; Score 13.8; DB 1; Length 17;
    Best Local Similarity 88.2%; Pred. No. 78;
    Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
    QY 51 GCGCGCGCGTGCCTGCGG 67
    Db 17 GCGCGCGCGTGCCTGCGG 1
    RESULT 127
    ID ACD59841
    AC ACD59841 standard; RNA; 17 BP.
    AC ACD59841;
    DT 24-SEP-2003 (first entry)
    DE HCV DNzyme substrate sequence #1531.
    KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
    KW RNA stability; RNA expression; RNA synthesis; antisense;
    KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;
    KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
    KW HBV reverse transcriptase; Enhancer I region; viral replication;
    KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
    KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
    KW virucide; antiinflammatory; substrate; ss.

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XX OS Hepatitis C virus.
XX PN WO200281494-A1.
XX PD 17-OCT-2002.
XX PF 26-MAR-2002; 2002WO-US009187.
XX PR 26-MAR-2001; 2001US-00817879.
XX PR 08-JUN-2001; 2001US-00877478.
XX PR 08-JUN-2001; 2001US-0296876P.
XX PR 24-OCT-2001; 2001US-0335059P.
XX PR 05-DEC-2001; 2001US-0337055P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (BLAT/) BLATT L.
XX PA (MACE/) MACEJAK D.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (MORR/) MORRISSEY D.
XX PA (PAVC/) PAVCO P.
XX PA (LEEP/) LEE P.
XX PA (DRAP/) DRAPER K.
XX PA (ROBE/) ROBERTS E.
XX PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
XX PI Draper K, Roberts E;
XX DR WPI; 2003-229207/22.
XX PT Novel compound useful for treating cirrhosis, liver failure,
XX PT hepatocellular carcinoma, or condition associated with hepatitis C virus
XX PT infection.
XX PS Claim 1; Page 261; 387pp; English.
XX CC The present invention relates to nucleic acid molecules which modulate
XX CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,
XX CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
XX CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX CC as oligonucleotides that specifically bind the Enhancer I region of HBV
XX CC DNA. The nucleic acids may be used to modulate the expression of HBV
XX CC genes and HBV viral replication. Also disclosed is a method for screening
XX CC compounds and/or potential therapies directed against HBV, and compounds
XX CC that modulate the expression and/or replication of HCV. The compounds and
XX CC methods of the invention are useful for the treatment of degenerative and
XX CC disease states related to HBV and HCV infection, replication and gene
XX CC expression such as cirrhosis, liver failure, and hepatocellular
XX CC carcinoma. The present sequence represents a substrate for one of the HCV
XX CC DNzyme or minus strand DNzyme sequences disclosed in the present
XX CC invention
XX SQ Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;
    Query Match 1.4%; Score 13.8; DB 1; Length 17;
    Best Local Similarity 70.8%; Pred. No. 78;
    Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
    QY 620 ATCACTTAGCAGCTGAG 636
    Db 1 AUCACUCAGCUCGAG 17
    RESULT 128
    ID ACD55421/c
    AC ACD55421 standard; RNA; 17 BP.
    AC ACD55421;
    DT 23-SEP-2003 (first entry)

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XX DE HBV amberzyme substrate sequence #42.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

XX RNA stability; RNA expression; RNA synthesis; antisense;

XX enzymatic nucleic acid; hammerhead ribozyme; DNzyme; zinzyme;

XX amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;

XX HBV reverse transcriptase; Enhancer I region; viral replication;

XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;

XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

XX virucide; antiinflammatory; substrate; ss.

XX Hepatitis B virus.

XX WO200281494-A1.

XX 17-OCT-2002.

XX 26-MAR-2002; 2002WO-US009187.

XX 26-MAR-2001; 2001US-00817879.

XX 08-JUN-2001; 2001US-00877478.

XX 08-JUN-2001; 2001US-0296876P.

XX 24-OCT-2001; 2001US-0335059P.

XX 05-DEC-2001; 2001US-0337055P.

XX (RIBO-) RIBOZYME PHARM INC.

XX (BLAT/) BLATT L.

XX (MACE/) MACEJAK D.

XX (MCSW/) MCSWIGGEN J.

XX (MORR/) MORRISSEY D.

XX (PAVC/) PAVCO P.

XX (LEEP/) LEE P.

XX (DRAP/) DRAPER K.

XX (ROBE/) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

XX Draper K, Roberts E;

XX WPI; 2003-229207/22.

XX Novel compound useful for treating cirrhosis, liver failure,

XX hepatocellular carcinoma, or condition associated with hepatitis C virus

XX infection.

XX Example 1; Page 203; 387pp; English.

XX The present invention relates to nucleic acid molecules which modulate

XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or

XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

XX and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,

XX inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed

XX are nucleic acid decoy molecules and aptamers that bind to HBV reverse

XX transcriptase and/or HBV reverse transcriptase primer sequences, as well

XX as oligonucleotides that specifically bind the Enhancer I region of HBV

XX DNA. The nucleic acids may be used to modulate the expression of HBV

XX genes and HBV viral replication. Also disclosed is a method for screening

XX compounds and/or potential therapies directed against HBV, and compounds

XX that modulate the expression and/or replication of HCV. The compounds and

XX methods of the invention are useful for the treatment of degenerative and

XX disease states related to HBV and HCV infection, replication and gene

XX expression such as cirrhosis, liver failure, and hepatocellular

XX carcinoma. The present sequence represents a substrate for one of the HBV

XX ribozyme, inozyme, G-cleaver, zinzyme, DNzyme or amberzyme sequences

XX disclosed in the present invention

XX Sequence 17 BP; 3 A; 4 C; 3 G; 0 T; 7 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 78;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 474 TGATGTCAGAGAAC 490

Db 17 TGATGTCAGAGAAC 1

RESULT 129

ADB42408

ID ADB42408 standard; DNA; 17 BP.

XX ADB42408;

AC ADB42408;

XX 18-DEC-2003 (revised)

DT 04-DEC-2003 (first entry)

XX Tumour suppression/reversion associated nucleotide #2731.

XX cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;

XX primer; probe; tumour suppression; tumour reversion; apoptosis;

XX virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;

XX diagnosis.

XX Homo sapiens.

OS WO2003040369-A2.

PN 15-MAY-2003.

XX 17-SEP-2002; 2002WO-IB004219.

XX 17-SEP-2001; 2001FR-00011981.

XX (MOLE-) MOLECULAR ENGINES LAB.

XX Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-441574/41.

XX New nucleic acid encoding human prostate membrane-specific antigen,

XX useful e.g. for treatment of tumors and viral infection, also related

XX polypeptide and antibodies.

XX Disclosure; Page 351; 771pp; French.

XX The invention relates to the isolation of 6327 nucleotide sequences,

XX fragments of at least 15 consecutive nucleotides of these nucleotides, a

XX sequence having at least 80% identity, after optimal alignment, with the

XX nucleotides, a sequence that hybridizes under stringent conditions with

XX the nucleotides, or the complement, or corresponding RNA, of the

XX nucleotides. The nucleotides are used as probes or primers for detecting,

XX identifying, quantifying and/or amplifying nucleic acids, as in vitro

XX sense and antisense sequences, of nucleotides involved in tumour

XX suppression or reversion, apoptosis and or viral resistance, to produce

XX recombinant polypeptides, and to prepare transgenic animals, as

XX experimental models. The nucleotides (also vectors containing them and

XX cells containing the vectors), the encoded polypeptides and antibodies

XX (Ab) against the polypeptide are useful for prevention and/or treatment

XX of viral infections or diseases characterized by development of tumours

XX or cell degeneration (e.g. Alzheimer's disease or schizophrenia).

XX Analysis of the expression of the nucleotides can be used for diagnosis

XX and/or prognosis of these diseases. The nucleotides and polypeptides can

XX also be used to screen for their specific interactive molecules,

XX potentially useful for treating diseases associated with abnormal

XX expression of the nucleotides.

XX Sequence 17 BP; 5 A; 4 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 78;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 608 GATCTGAATGAATCAC 624

Db 1 GATCTGAATGAATCAC 17

RESULT 130  
AAQ54286  
ID AAQ54286 standard; DNA; 18 BP.  
XX  
AC AAQ54286;  
XX  
DT 25-MAR-2003 (revised)  
DT 30-JUN-1994 (first entry)  
XX  
XX Positive primer to amplify HSV fragment of specific mol.wt.  
DE  
XX Herpes Simplex Virus; Herpes viridae; amplification reaction;  
KW DNA polymerase; conserved sequence; ss.  
KW  
XX Synthetic.  
XX  
DN W09325707-A2.  
XX  
XX 23-DEC-1993.  
XX  
XX 04-JUN-1993; 93WO-ES000048.  
XX  
XX 05-JUN-1992; 92ES-00001174.  
XX  
XX (SALU-) INST SALUD CARLOS III.  
XX  
XX Tenorio Matanzo A;  
PI  
XX WPI; 1994-007564/01.  
DR  
XX Amplification of genome(s) and initiator oligo-nucleotide(s) mixts. -  
PT using single reaction mixt. to detect and identify infections by related  
PT viruses.  
XX  
XX Claim 15(i); Page 27; 4lpp; Spanish.  
PS  
XX The known amino acid sequences of DNA polymerases from 6 different  
CC members of the herpes viridae family were aligned so that conserved  
CC regions could be identified. A set of primers (AAQ54286-Q54290) was  
CC designed based on the sequences. The primers each amplify a fragment of  
CC specific mol.wt. to allow different viruses to be detected. Sequence  
CC AAQ54286 is specific for HSV. This primer is partially self-complementary  
CC so to minimise any interaction between primers, a modified version was  
CC synthesised (see AAQ54326). (Updated on 25-MAR-2003 to correct PN field.)  
XX  
XX Sequence 18 BP; 1 A; 7 C; 7 G; 3 T; 0 U; 0 Other;  
SQ

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 271 GTGCGCGCGCCACGG 287  
DB 2 GTGCGCGCGCCTCACGG 18

RESULT 131  
AAT36246/C  
ID AAT36246 standard; DNA; 18 BP.  
XX  
AC AAT36246;  
XX  
DT 25-MAR-2003 (revised)  
DT 16-APR-1997 (first entry)  
XX  
XX CD28 expression inhibiting oligonucleotide, RT25s.  
DE  
XX Reduction; T cell; CD28; gene expression; treatment; immune system;  
KW disorder; graft versus host disease; septic shock; viral disease;  
KW psoriasis; type I diabetes mellitus; thyroiditis; sarcoides;  
KW multiple sclerosis; uveitis; rheumatoid arthritis; interleukin 2;  
KW systemic lupus erythematosus; inflammatory bowel disease; IL-2;  
KW

KW production; antisense; inhibition; ss.  
XX  
OS Synthetic.  
XX  
PN W09624380-A1.  
XX  
XX 15-AUG-1996.  
XX  
XX 05-FEB-1996; 96WO-US001507.  
XX  
XX 09-FEB-1995; 95US-00387041.  
PR 18-SEP-1995; 95US-00529878.  
XX  
XX (ICNC ) ICN PHARM INC.  
PA  
XX Tam RC;  
PI  
XX WPI; 1996-384228/38.  
DR  
XX Oligo:nucleotide which reduces CD28 gene expression in T cells - for  
XX treating immune system diseases, e.g. graft vs. host disease, septic  
PT shock, psoriasis, etc.  
PT  
XX Example 2; Page 45; 77pp; English.  
PS  
XX The present oligonucleotide reduces CD28 dependent interleukin-2 (IL-2)  
CC production and T cell CD28 gene expression, useful in the treatment of  
CC CD28 mediated diseases, particularly immune system disorders, e.g. graft  
CC versus host disease, septic shock, viral disease, psoriasis, type I  
CC diabetes mellitus, thyroiditis, sarcoides, multiple sclerosis, uveitis,  
CC rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel  
CC disease, etc. Reducing CD28 expression may reduce the effects of  
CC antigenic stimulation of CD28 positive T cells, with a consequent  
CC reduction in cytokine release. (Updated on 25-MAR-2003 to correct PR  
CC field.)  
XX  
XX Sequence 18 BP; 1 A; 4 C; 9 G; 4 T; 0 U; 0 Other;  
SQ

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 803 CCGAAGAGCGCCCTTCA 819  
DB 18 CCGAAGAGCGCCCTTCA 2

RESULT 132  
AAT27164  
ID AAT27164 standard; DNA; 18 BP.  
XX  
XX AAT27164;  
AC  
XX 11-DEC-1996 (first entry)  
DT  
XX Human Machado-Joseph disease gene primer (5).  
DE  
XX Human; Machado-Joseph disease; mature protein; repeat motif; probe;  
KW cerebral temporal fossa lobe cortex; primer; amplification; PCR; ss;  
KW polymerase chain reaction.  
KW  
XX Synthetic.  
OS  
XX JP08092289-A.  
PN  
XX 09-APR-1996.  
XX  
XX 21-SEP-1994; 94JP-00251600.  
PF  
XX 21-SEP-1994; 94JP-00251600.  
PR  
XX (ONCY ) ONO PHARM CO LTD.  
PA  
XX



DT 21-MAY-1998 (first entry)  
XX PCR primer G-R used to identify Sox-3 gene mutations in mice.  
DE  
XX  
XX Mutation: Sox-3; ENU mutagenesis; mutational screening; recessive;  
KW single strand conformation polymorphism; SSCP; phenotypic alteration;  
KW PCR primer; amplify; ss.  
XX  
XX Synthetic.  
OS Mus sp.  
OS  
XX WO9744485-A1.  
XX  
XX 27-NOV-1997.  
XX  
XX 16-MAY-1997; 97WO-GB001354.  
XX  
XX 17-MAY-1996; 96GB-00010355.  
PR  
XX (HEXA-) HEXAGEN TECHNOLOGY LTD.  
XX  
XX Goodfellow PN;  
XX  
XX WPI; 1998-018536/02.  
DR  
XX Identification of mutation(s) in genes of interest - without prior  
PT observation of phenotypic alteration in the mutated organism or cell.  
PT  
XX Example 4; Page 41; 66pp; English.  
PS  
XX PCR primers AAV16001-18 were used to identify mutations in Sox-3 using  
CC the method of the invention. The primers are located throughout the gene  
CC and are unique to Sox-3. The method comprises testing a nucleic acid  
CC sample from a mutated organism for a mutation in a gene of interest  
CC without the prior observation of a phenotypic alteration in the mutated  
CC organism resulting from the mutation. Sox-3 is a member of the Sox gene  
CC family, a family of about 20 genes which all encode a "HMG" box, which is  
CC a DNA-binding domain. Mice were mutagenised using ENU mutagenesis. The  
CC mutagenised mice were tested by PCR with each primer set and fluorescent  
CC single strand conformation polymorphism (SSCP), which identifies mice  
CC carrying mutations in Sox-3. The method provides mutational screening  
CC based on genomic and genetic techniques rather than on phenotypic  
CC observation. The method identifies and characterises genes via  
CC mutagenesis to identify genes encoding products which may have  
CC therapeutic benefit. The method also identifies the presence of mutations  
CC in a gene which do not rely solely upon prior matching of a gene with a  
CC disease. Heterozygotic organisms can also be screened to identify those  
CC carrying a mutation in a copy of a gene of interest even though the gene  
CC may be recessive and therefore causes no phenotypic alteration  
XX  
SQ Sequence 18 BP; 0 A; 7 C; 11 G; 0 T; 0 U; 0 Other;  
Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 114 GCGGCGCGCGGCGGTCG 130  
DB 1 GCGGCGCGCGGCGGCGG 17  
RESULT 136  
AAV94823/C  
ID AAV94823 standard; RNA; 18 BP.  
XX  
AC AAV94823;  
XX  
DT 24-FEB-1999 (first entry)  
XX  
XX Human IL-2 receptor g-chain substrate position 97.  
DE  
XX Human; IL-2 receptor g-chain; interleukin 2 receptor gamma chain;  
KW hammerhead ribozyme; hairpin ribozyme; substrate; expression; cancer;  
KW

KW autoimmune disease; psoriasis; allergy; inflammatory disease;  
KW graft rejection; ss.  
OS Homo sapiens.  
XX  
PN WO9824913-A2.  
XX  
XX 11-JUN-1998.  
XX  
XX 02-DEC-1997; 97WO-US021748.  
XX  
XX 03-DEC-1996; 96US-00758306.  
PR  
XX (RIBO-) RIBOZYME PHARM INC.  
XX  
XX Stinchcomb DT, Mcswiggen JA;  
PI  
XX WPI; 1998-333332/29.  
DR  
XX Ribozymes targetted to interleukin 2 - useful for treating e.g. cancer,  
PT autoimmune disease and allergies.  
PT  
XX Claim 4; Page 38; 61pp; English.  
PS  
XX The present sequence invention describes ribozymes targeted to modulate  
CC the synthesis and/or expression of interleukin (IL)-2R gamma encoded RNA.  
CC AAV93889 to AAV94574 represent specifically claimed ribozymes, and  
CC AAV94575 to AAV95260 represent specifically claimed substrate sequences  
CC from the present invention. The ribozymes can be used for the treatment  
CC of, e.g. graft rejection, autoimmune disease, cancer, psoriasis, allergy  
CC and other inflammatory conditions. The ribozymes are also used to induce  
CC tolerance in a recipient to alloantigen from a donor  
XX  
SQ Sequence 18 BP; 5 A; 6 C; 3 G; 0 T; 4 U; 0 Other;  
Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 967 ATTGGGCTTCAGAACTG 983  
DB 17 ATTGGGCTTCAGAACTG 1  
RESULT 137  
AAZ24020  
ID AAZ24020 standard; DNA; 18 BP.  
XX  
AC AAZ24020;  
XX  
XX 04-FEB-2000 (first entry)  
DT  
XX Human GDNF PCR primer XL-1.r.  
DE  
XX GDNF; human; glial cell line-derived neurotrophic factor; diagnosis;  
KW treatment; neurodegenerative disease; Alzheimer's disease; detection;  
KW Parkinson's disease; amyotrophic lateral sclerosis; PCR primer; ss.  
XX  
XX Synthetic.  
OS Homo sapiens.  
XX  
XX DE19816186-A1.  
PN  
XX 21-OCT-1999.  
XX  
XX 14-APR-1998; 98DE-01016186.  
PF  
XX 14-APR-1998; 98DE-01016186.  
XX  
XX (UYLU-) UNIV MUENCHEN MAXIMILIANS LUDWIG.  
PA  
XX WPI; 1999-591830/51.  
DR  
XX

PT Novel nucleic acids used for diagnosis and treatment of neurodegenerative diseases.

PS Claim 5; Fig 4; 14pp; German.

XX This invention describes a novel human DNA (I), encoding glial cell line-derived neurotrophic factor (GDNF). (I), also its promoter, exon fragments and primer pairs able to hybridize to it, and GDNF variants (II) encoded by the exon fragments, are used (i) to investigate regulation of GDNF at the molecular level, and to design methods for influencing this regulation and (ii) for diagnosis and treatment of neurodegenerative diseases, specifically Alzheimer's and Parkinson's diseases or amyotrophic lateral sclerosis, either by administration of GDNF variants or by inhibition with e.g. antisense nucleic acid. The promoter fragment of can also be used to identify agents that regulate (up or down) GDNF expression. (II) can be used to raise (or detect) specific antibodies (Ab) for detection of (II), in usual immunoassays. Ab are also useful therapeutically to inhibit specific GDNF variants. AA224019-2324040 represent PCR primers used to amplify the human GDNF sequence described in the method of the invention

XX Sequence 18 BP; 4 A; 4 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 143 GTGTGGAGCTGGACCAG 159  
|||||  
Db 2 GTGTGGAGCAGCACCAG 18

RESULT 138

AAZ24038

ID AAZ24038 standard; DNA; 18 BP.

AC AAZ24038;

XX 04-FEB-2000 (first entry)

XX Human GDNF PCR primer IP2.r.

XX GDNF; human; glial cell line-derived neurotrophic factor; diagnosis; treatment; neurodegenerative disease; Alzheimer's disease; detection; Parkinson's disease; amyotrophic lateral sclerosis; PCR primer; ss.

XX Synthetic.

OS Homo sapiens.

PN DE19816186-A1.

XX 21-OCT-1999.

XX 14-APR-1998; 98DE-01016186.

XX 14-APR-1998; 98DE-01016186.

XX (UYLU-) UNIV MUENCHEN MAXIMILIANS LUDWIG.

XX WPI; 1999-591830/51.

XX Novel nucleic acids used for diagnosis and treatment of neurodegenerative diseases.

PS Claim 5; Fig 4; 14pp; German.

XX This invention describes a novel human DNA (I), encoding glial cell line-derived neurotrophic factor (GDNF). (I), also its promoter, exon fragments and primer pairs able to hybridize to it, and GDNF variants (II) encoded by the exon fragments, are used (i) to investigate regulation of GDNF at the molecular level, and to design methods for influencing this regulation and (ii) for diagnosis and treatment of neurodegenerative diseases, specifically Alzheimer's and Parkinson's

CC diseases or amyotrophic lateral sclerosis, either by administration of GDNF variants or by inhibition with e.g. antisense nucleic acid. The promoter fragment of can also be used to identify agents that regulate (up or down) GDNF expression. (II) can be used to raise (or detect) specific antibodies (Ab) for detection of (II), in usual immunoassays. Ab are also useful therapeutically to inhibit specific GDNF variants. AA224019-2324040 represent PCR primers used to amplify the human GDNF sequence described in the method of the invention

XX Sequence 18 BP; 4 A; 4 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 143 GTGTGGAGCTGGACCAG 159  
|||||  
Db 2 GTGTGGAGCAGCACCAG 18

RESULT 139

AAZ20988/C

ID AAZ20988 standard; DNA; 18 BP.

AC AAZ20988;

XX 01-DEC-1999 (first entry)

XX Human semaphorin ZSMF-7 antisense PCR primer ZC16085.

XX Semaphorin; transmembrane; secreted; neuroregeneration; immunosuppression; diabetes; multiple sclerosis; rheumatoid arthritis; proliferation; differentiation; PCR; primer; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9945114-A2.

XX 10-SEP-1999.

XX 03-MAR-1999; 99WO-US004758.

XX 03-MAR-1998; 98US-0076611P.

XX (ZYMO) ZYMOGENETICS INC.

XX Holloway JL, Lofton-Day CE;

XX WPI; 1999-540845/45.

XX New isolated human semaphorin ZSMF-7 polypeptides, used to develop products for treating e.g. immunodeficiencies, autoimmune diseases, inflammation, graft rejection and infective diseases.

XX Example 3; Page 105; 124pp; English.

XX This sequence represents sense PCR primer ZC16085 used with antisense primer ZC16086 (AAZ20987) in the localisation of the human ZSMF-7 semaphorin gene to 15q24.3. The cDNA was isolated and amplified from a human testis cDNA library using PCR primers ZC16189 (AAZ20989) and ZC16188 (AAZ20990) which had been designed based upon an incomplete clone obtained from a human placenta library. Semaphorins have a variety of roles. They influence the direction and degree of axon and dendrite growth in nervous tissue, and may thus be useful as therapeutic agents for various neurodegenerative conditions. They are active in defining and directing development of various tissues and organs including those associated with muscle, fibroblasts, reproductive, endocrine and lymphatic tissues. ZSMF-7 plays a role as a mediator of immunosuppression, in particularly the activation and regulation of T lymphocytes. ZSMF-7 polypeptides would be useful additions to therapies for treating immunodeficiencies. ZSMF-7 is expressed in activated lymphocytes (MRL cells) and not in resting lymphocyte cells (CD4+ and



CC CD8+) suggesting that it would be a useful tool for diagnosis and  
 CC treatment of conditions where selective elimination of inappropriately  
 CC activated T cells would be beneficial, such as in autoimmune diseases, in  
 CC particular insulin diabetes mellitus, rheumatoid arthritis and  
 CC multiple sclerosis. ZSMF-7 polypeptides can be used in vivo as anti-  
 CC inflammatory agents, for inhibition of antigen in humoral and cellular  
 CC immunity and for immunosuppression in graft and organ transplants  
 XX  
 SQ Sequence 18 BP; 6 A; 2 C; 8 G; 2 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 87;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 200 CCTCTCGACTTCCCG 216  
 |||||  
 DB 18 CCTCTTGACTTCCCG 2  
 RESULT 140  
 AAA07061/C  
 ID AAA07061 standard; DNA; 18 BP.  
 XX  
 AC AAA07061;  
 XX  
 DT 03-JUL-2000 (first entry)  
 XX  
 DE Human integrin beta 3 antisense oligonucleotide, SEQ ID NO:34.  
 XX  
 KW Integrin beta 3; human endothelial glycoprotein; GP3A; GPIIIa; ITGB3;  
 KW CD61; platelet glycoprotein 3a; cellular adhesion; vitronectin receptor;  
 KW fibronectin receptor; expression inhibition; antisense; tumour formation;  
 KW cancer invasion; bleeding disorder; inflammation; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US6037176-A.  
 XX  
 PD 14-MAR-2000.  
 XX  
 PF 25-JUN-1999; 99US-00344520.  
 XX  
 PR 25-JUN-1999; 99US-00344520.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett CF, Cowser LM, Monia BP;  
 XX  
 DR WPI; 2000-246189/21.  
 XX  
 PT New antisense compound that inhibits human integrin beta3, useful e.g.  
 PT for treating or preventing infection, inflammation and tumors.  
 XX  
 PS Example 15; Col 40; 33pp; English.  
 XX  
 CC Sequences AAA07035-A07074 represent antisense oligonucleotides targeted  
 CC to the human integrin beta 3 gene, which inhibit its expression. The  
 CC antisense oligonucleotides were designed to target different regions of  
 CC the human integrin beta 3 RNA, and were analysed for their effect on  
 CC integrin beta 3 mRNA levels by quantitative real-time PCR. GAPDH  
 CC (glyceraldehyde-3-phosphate) mRNA levels were measured as a control.  
 CC Integrins constitute one of four classes of cellular adhesion molecules,  
 CC and play an important role in cell migration, cell anchorage to  
 CC substrates and cytoadhesion signalling pathways. They are heterodimeric  
 CC cation-dependent membrane glycoproteins composed of an alpha and beta  
 CC subunit. Integrin beta 3 (also known as human endothelial glycoprotein,  
 CC GP3A, GPIIIa, ITGB3, CD61 and platelet glycoprotein 3a) is the common  
 CC beta subunit partner of the members of the beta-3 subfamily of integrins.  
 CC This family consists of the vitronectin receptor (alpha-V-beta-3) and the  
 CC fibronectin receptor (alpha-IIb-beta-3). Cells expressing this class of  
 CC integrin can adhere to various matrix proteins and participate in various  
 CC cytoadhesion-driven cellular responses. Integrin beta 3 is implicated in  
 CC conditions such as vascular restenosis, excessive bone resorption,

CC angiogenesis (in melanoma), tumour invasion, platelet aggregation and  
 CC Glanzmann's thrombasthenia. The oligonucleotides of the invention are  
 CC useful for diagnosis, prevention and treatment of conditions associated  
 CC with integrin beta 3 expression, such as tumour formation, inflammation,  
 CC infections and the diseases mentioned above  
 XX  
 SQ Sequence 18 BP; 4 A; 2 C; 7 G; 5 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 87;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 701 CTGGCAACTCCCATCA 717  
 |||||  
 DB 18 CTGGAACCTCCTCATCA 2  
 RESULT 141  
 AAZ57670  
 ID AAZ57670 standard; DNA; 18 BP.  
 XX  
 AC AAZ57670;  
 XX  
 DT 05-APR-2000 (first entry)  
 XX  
 DE Human G-alpha-12 antisense inhibitor ISIS# 20658.  
 XX  
 KW G-alpha-12 inhibitor; antisense compound; cell differentiation; cancer;  
 KW cell growth; metastatic growth; ss; ISIS# 20658.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US5998206-A.  
 XX  
 PD 07-DEC-1999.  
 XX  
 PF 23-FEB-1999; 99US-00256496.  
 XX  
 PR 23-FEB-1999; 99US-00256496.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Cowser LM;  
 XX  
 DR WPI; 2000-095920/08.  
 XX  
 PT Antisense inhibition of human G-alpha-12 expression.  
 XX  
 PS Example 15; Col 38; 36pp; English.  
 XX  
 CC This is a human G-alpha-12 antisense nucleotide sequence. G-alpha-12 is a  
 CC member of the G12/13 subfamily of G-proteins. The primary function of G-  
 CC alpha-12 is in cell differentiation and growth. The invention relates to  
 CC antisense compounds which are 8-30 nucleotides long (see AAZ57668-  
 CC 257746). The antisense molecules are targeted to the human G-alpha-12  
 CC nucleic acid molecule, and inhibit the expression of G-alpha-12. The  
 CC molecules preferably have a modified internucleotide linkage, and at  
 CC least one modified sugar moiety. The compounds target different regions  
 CC of the human G-alpha-12 RNA. The expression of human G-alpha 12 is  
 CC inhibited by contacting human cells or tissues in vitro with the  
 CC antisense molecules. The oligonucleotides are used in modulating the  
 CC function of nucleic acid molecules encoding G-alpha-12, ultimately  
 CC modulating the amount of G-alpha-12 produced. The antisense compounds can  
 CC be utilized for diagnostics, therapeutics, prophylaxis and as research  
 CC agents and kits. They may be useful in the treatment of cancer, and  
 CC metastatic growth  
 XX  
 SQ Sequence 18 BP; 4 A; 4 C; 9 G; 1 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 87;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy 13 GCAGGCGCGCGCGGAGG 29
    ||||| ||||| |||||
Db 2 GCAGGCGCGCGCTGAGG 18

RESULT 142
AAZ91373
ID AAZ91373 standard; DNA; 18 BP.
XX
XX AAZ91373;
XX
XX 22-MAY-2000 (first entry)
XX
XX Human PTEN phosphorothioate antisense oligonucleotide #29539.
XX
XX Human; PTEN; MMAC1; TEPI; phosphorothioate; antisense oligonucleotide;
XX inhibition; protein phosphatase; tumour; diagnosis; inflammation;
XX anticancer; anti-inflammatory; anti-infective; infection; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX modified_base 1..18
XX /*tag= a
XX /*note= "phosphorothioate linkages"
XX
XX US6020199-A.
XX
XX 01-FEB-2000.
XX
XX 21-JUL-1999; 99US-00358381.
XX
XX 21-JUL-1999; 99US-00358381.
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Cowser LM;
XX
XX WPI; 2000-181363/16.
XX
XX New antisense compounds useful for treating, preventing or diagnosing
XX e.g. tumors or inflammation, are targeted to the human dual specificity
XX protein phosphatase (PTEN) sequence.
XX
XX Claim 16; Col 40; 32pp; English.
XX
XX The present invention describes phosphorothioate antisense
XX oligonucleotides that are targeted to the 3'-untranslated region (UTR) of
XX the sequence encoding a human dual specificity protein phosphatase
XX designated PTEN (also known as MMAC1 and TEPI), and hybridise
XX specifically to the human PTEN nucleotide sequence given in AAZ91361. The
XX antisense oligonucleotides have anticancer, anti-inflammatory and anti-
XX infective activities. The phosphorothioate antisense oligonucleotides can
XX be used for diagnosis, treatment and prevention of PTEN-related diseases,
XX e.g. infections, inflammation and tumours. The present sequence
XX represents a phosphorothioate antisense oligonucleotide for human PTEN,
XX from the present invention
XX
XX Sequence 18 BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 1..4%; Score 13.8; DB 1; Length 18;
XX Best Local Similarity 88.2%; Pred. No. 87;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Qy 114 GCGGCGCGCGGAGCTGC 130
    ||||| ||||| |||||
Db 18 GCGGCGCGCGCACCTCC 2

RESULT 144
AAZ43273
ID AAZ43273 standard; DNA; 18 BP.
XX
XX AAZ43273;
XX
XX 11-FEB-2000 (first entry)
XX
XX Murine Sox3 gene PCR primer 14.
XX
XX Screening; mutation; treatment; disease; drug discovery; PCR primer; ss.
XX
XX Mus musculus.
XX
```

```
Qy 13 GCAGGCGCGCGCGGAGG 29
    ||||| ||||| |||||
Db 2 GCAGGCGCGCGCTGAGG 18

RESULT 142
AAZ91373
ID AAZ91373 standard; DNA; 18 BP.
XX
XX AAZ91373;
XX
XX 22-MAY-2000 (first entry)
XX
XX Human PTEN phosphorothioate antisense oligonucleotide #29539.
XX
XX Human; PTEN; MMAC1; TEPI; phosphorothioate; antisense oligonucleotide;
XX inhibition; protein phosphatase; tumour; diagnosis; inflammation;
XX anticancer; anti-inflammatory; anti-infective; infection; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX modified_base 1..18
XX /*tag= a
XX /*note= "phosphorothioate linkages"
XX
XX US6020199-A.
XX
XX 01-FEB-2000.
XX
XX 21-JUL-1999; 99US-00358381.
XX
XX 21-JUL-1999; 99US-00358381.
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Cowser LM;
XX
XX WPI; 2000-181363/16.
XX
XX New antisense compounds useful for treating, preventing or diagnosing
XX e.g. tumors or inflammation, are targeted to the human dual specificity
XX protein phosphatase (PTEN) sequence.
XX
XX Claim 16; Col 40; 32pp; English.
XX
XX The present invention describes phosphorothioate antisense
XX oligonucleotides that are targeted to the 3'-untranslated region (UTR) of
XX the sequence encoding a human dual specificity protein phosphatase
XX designated PTEN (also known as MMAC1 and TEPI), and hybridise
XX specifically to the human PTEN nucleotide sequence given in AAZ91361. The
XX antisense oligonucleotides have anticancer, anti-inflammatory and anti-
XX infective activities. The phosphorothioate antisense oligonucleotides can
XX be used for diagnosis, treatment and prevention of PTEN-related diseases,
XX e.g. infections, inflammation and tumours. The present sequence
XX represents a phosphorothioate antisense oligonucleotide for human PTEN,
XX from the present invention
XX
XX Sequence 18 BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 1..4%; Score 13.8; DB 1; Length 18;
XX Best Local Similarity 88.2%; Pred. No. 87;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Qy 267 GCGGTCGCGCGCGCC 283
    ||||| ||||| |||||
Db 2 GCGGTCGCGCGCGCC 18

RESULT 143
AAZ91373/c
ID AAZ91373 standard; DNA; 18 BP.
XX
```

```
XX US5994075-A.
XX 30-NOV-1999.
XX 16-MAY-1997; 97US-00857946.
XX 17-MAY-1996; 96US-0017824P.
XX (HEXA-) HEXAGEN TECHNOLOGY LTD.
XX Goodfellow PN;
XX WPI; 2000-038255/03.
XX Identifying a mutation in a gene of interest in an organism useful for
XX identifying genes encoding products which may have therapeutic benefits.
XX Example 5; Col 65-66; 70pp; English.
XX This invention describes a novel mutational screening method based on
XX genomic and genetic techniques to identify and characterize a mutation in
XX a gene of interest without first selecting a phenotypic characteristic.
XX The screening methods are useful for identifying genes encoding products
XX which may have therapeutic benefit for treating human or animal diseases.
XX The method can be used for the DNA mutation screening of a class or a
XX family of genes providing a rapid assay for identifying mutant genes. The
XX methods produce organisms which can be used for drug discovery e.g.
XX providing a model for the study and treatment of a disease state, allow
XX in vitro assessment of drug activity and interbreeding of mutants which
XX allow investigation of gene interactions in the overall phenotype. A
XX range of phenotypes associated with different mutations, and specified
XX mutations in a gene of interest can be determined. The method can be
XX adapted to screen for a mutation in two or more genes of interest in an
XX organism. The methods allow mutations in a gene of interest to be
XX identified without having to rely on matching a gene with a disease.
XX AAZ43260-243421 represent PCR primers used in the method of the invention
XX
XX Sequence 18 BP; 0 A; 7 C; 11 G; 0 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 114 GCGGCGGCGGCGAGCTGC 130
Db 1 GCGGCGGCGGCGGCGGC 17
RESULT 145
AAA05258
ID AAA05258 standard; DNA; 18 BP.
XX AAA05258;
XX 19-MAY-2000 (first entry)
XX PCR primer G-R used in Sox-3 amplicon generation.
XX PCR primer; Sox-2; Sox-3; T gene; Tyrosinase; MGF; Sry; c-kit; Tryp-1;
XX Pax-6; mutation detection; therapeutic target identification; mouse;
XX mast cell growth factor; ss.
XX Mus sp.
XX US6015670-A.
XX 18-JAN-2000.
XX 14-NOV-1997; 97US-00970740.
XX 17-MAY-1996; 96US-0017824P.
XX 16-MAY-1997; 97US-00857946.
XX
XX (HEXA-) HEXAGEN TECHNOLOGY LTD.
XX Goodfellow PN;
XX WPI; 2000-181139/16.
XX Detecting mutations in selected genes, useful e.g. for identifying
XX therapeutic targets or products, by analyzing DNA in mutated embryonic
XX stem cells without phenotypic characterization.
XX Example 5; Col 31; 66pp; English.
XX PCR primers AAA05245-A05406 are used to generate amplicons from the mouse
XX Sox-3 gene, Sox-2 gene, T gene, tyrosinase gene, Tryp-1 gene, Sry gene,
XX MGF (mast cell growth factor) gene, c-kit gene, and the Pax-6 gene. The
XX primers are used in a method for the identification of a mutation in a
XX selected gene in a tissue without the prior observation of a phenotypic
XX alteration in the mutated organism or cell. The method is used to
XX identify mutations in a selected gene that encode products of potential
XX therapeutic activity or that are potential targets, particularly where
XX the gene of interest has been identified as a candidate gene by
XX positional cloning. Other applications are determining functions of genes.
XX ; detecting the range of phenotypes associated with different mutations
XX in a particular gene and identification of particular mutations. Animals
XX containing an identified mutation are used as models for studying
XX diseases or their treatment, and cells from them for in vitro assessment
XX of drug action. Interbreeding of mutant mice is used to investigate
XX genetic interaction in the overall phenotype
XX
XX Sequence 18 BP; 0 A; 7 C; 11 G; 0 T; 0 U; 0 Other;
Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 114 GCGGCGGCGGCGAGCTGC 130
Db 1 GCGGCGGCGGCGGCGGC 17
RESULT 146
AAZ93474
ID AAZ93474 standard; DNA; 18 BP.
XX AAZ93474;
XX 24-JUL-2000 (first entry)
XX TRADD antisense oligonucleotide.
XX TRADD; TNF; tumour necrosis factor; NF-kappa-B; apoptosis;
XX programmed cell death; antisense; inhibition; treatment; therapy;
XX septic shock; inflammation; cancer; antiinflammatory; human; ss.
XX Synthetic.
XX Key Location/Qualifiers
XX misc_binding complement(1..18)
XX /tag= a
XX /note= "Complementary to bases 634-617 of the human TRADD
XX sequence described in GENESEQ record AAZ93431"
XX WO200012527-A1.
XX 09-MAR-2000.
XX 25-AUG-1999; 99WO-US019614.
XX 28-AUG-1998; 98US-00143212.
XX (ISIS-) ISIS PHARM INC.
```



PT specific polymorphisms in the promoter of the trabecular meshwork  
 XX inducible glucocorticoid receptor gene.  
 PS Claim 9; Page 53; 122pp; English.  
 XX Primers AA57489-A57508 were used for single strand conformational  
 CC polymorphism (SSCP) screening of the human TIGR (trabecular meshwork  
 CC inducible glucocorticoid receptor) gene. The primers correspond to  
 CC sequences found within the TIGR promoter and two of the exons of TIGR.  
 CC and are used in the method of the invention. The specification describes  
 CC a method for the diagnosis, prognosis and treatment of glaucoma, based on  
 CC detecting specific polymorphisms in the promoter of the TIGR gene. The  
 CC method is used for diagnosis and prognosis of glaucoma (of all types),  
 CC steroid sensitivity and progressive ocular hypertension that leads to  
 CC loss of vision. Glaucoma can be treated by administering an agent that  
 CC binds to cis-acting elements within the TIGR promoter. The TIGR promoter  
 CC (or other regulatory regions) can be used to express homologous or  
 CC heterologous genes, particularly for tissue-specific expression of  
 CC therapeutic transgenes for treating glaucoma, also to generate transgenic  
 CC animals and in screening for compounds (specific modulators) with  
 CC diagnostic or therapeutic potential. Fragments of the TIGR sequence can  
 CC be used as amplification primers or probes, e.g. for isolating related  
 CC sequences in non-human animals  
 XX  
 SQ Sequence 18 BP; 4 A; 2 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 87;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 831 CTCACCATATAGCCCTG 847  
 DB 18 CCCACAATATAGCCCTG 2

RESULT 149  
 AAF85699  
 ID AAF85699 standard; DNA; 18 BP.  
 AC AAF85699;  
 DT 13-JUL-2001 (first entry)  
 DE Multiple repeated heat process PCR related oligonucleotide #3.  
 KW Multiple repeated heat circulation; polymerase chain reaction; PCR;  
 KW target DNA production; DNA synthesis; ds.

XX Unidentified.  
 XX CN1278558-A.  
 XX 03-JAN-2001.  
 XX 22-JUN-1999; 99CN-00114949.  
 XX 22-JUN-1999; 99CN-00114949.  
 XX (XIAQ/) XIA Q.  
 XX Xia Q;  
 XX WPI; 2001-245741/26.  
 XX Asynchronous chain-extending polymerase chain reaction for producing lots  
 PT of target DNA fragments, comprises a multiple repeated heat circulation  
 PT process.  
 XX Disclosure; Page 3; 4pp; Chinese.  
 XX The present invention relates to a kind of two chains asynchronously-  
 CC elongated DNA amplification technology in vitro, which is characterized  
 CC by that firstly, a pair of specific primers is synthesized according to

CC the target DNA sequence to be amplified, then a repetitive sequence  
 CC complementary oligo-repetitive sequence of 3' target DNA chain whose tail  
 CC end is modified and elongation vitality is lost, then the oligo-  
 CC repetitive sequence, chain primer, heat-resisting DNA polymerase, dNTP  
 CC substrate, template DNA, magnesium ion, polymerase chain reaction (PCR)  
 CC buffer solution and ultra-pure water are mixed uniformly and made into a  
 CC reaction system. The reaction system then undergoes the processes of high  
 CC -temp., low-temp., medium-low temp., medium-temp, and repeated heat  
 CC circulation treatment in the heat-circulating instrument to obtain  
 CC million copies of specific target DNA fragments. The invention adopts a  
 CC multiple repeated heat circulation process, so that it can produce lots  
 CC of target DNA fragments. The present sequence was used in the  
 CC exemplification of the invention  
 XX

SQ Sequence 18 BP; 0 A; 6 C; 12 G; 0 T; 0 U; 0 Other;

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 87;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 115 CGCGCGCGCGCGCTGCG 131  
 DB 1 CGCGCGCGCGCGCGCG 17

RESULT 150  
 AAS13999  
 ID AAS13999 standard; DNA; 18 BP.  
 AC AAS13999;

DT 18-DEC-2001 (first entry)  
 DE Human PTEN antisense oligonucleotide ISIS 29539.

XX Human; PTEN; MMAC1; TEP1; protein phosphatase; antisense; ss;  
 KW antiinflammatory; cytostatic; antidiabetic; antilipemic; infection;  
 KW inflammation; tumour; diabetes; insulin resistance; insulin sensitivity;  
 KW triglyceride control; cholesterol control; ISIS 29539.

XX Homo sapiens.  
 OS Synthetic.

XX Key Location/Qualifiers  
 FH modified\_base 1..18  
 FT /tag= a  
 FT /note= "Phosphorothioate backbone"

FT modified\_base 1..4  
 FT /tag= b  
 FT /note= "Optionally 2'-methoxyethyl residue (2'-MOE). When  
 1-4 are 2'-MOE all cytosines in this region are 5-  
 methylcytosines"

FT modified\_base 15..18  
 FT /tag= c  
 FT /note= "Optionally 2'-methoxyethyl residue (2'-MOE). When  
 15-18 are 2'-MOE all cytosines in this region are 5-  
 methylcytosines"

PN US6284538-B1.

XX 04-SEP-2001.

XX 24-MAY-2000; 2000US-00577902.

XX 21-JUL-1999; 99US-00358381.

PR 14-DEC-1999; 99WO-US029594.

XX (ISIS-) ISIS PHARM INC.

XX Monia BP, Cowsett LM, McKay R;

XX WPI; 2001-588976/66.

XX

PT New antisense oligonucleotides targeting nucleic acids encoding PTEN,  
PT useful for treating diabetes, increasing insulin sensitivity, or  
PT decreasing insulin resistance, blood triglyceride or cholesterol levels  
PT in a diabetic animal.  
XX  
PS Claim 1; Col 41; 38pp; English.  
XX  
CC The invention relates to a compound targeted to a nucleic acid encoding  
CC PTEN (a dual specificity protein phosphatase), where the compound is an  
CC antisense oligonucleotide. The antisense oligonucleotides are useful in  
CC modulating the function of nucleic acids encoding PTEN, ultimately  
CC modulating the amount of PTEN produced. The antisense compounds can be used  
CC as diagnostics, therapeutics, prophylactics (e.g. to prevent or delay  
CC infection, inflammation or tumour formation), and as research agents and  
CC kits. The antisense compounds are also useful in treating diabetes,  
CC decreasing insulin resistance, increasing insulin sensitivity and  
CC decreasing blood triglyceride or cholesterol levels in a diabetic animal.  
CC The present sequence is an antisense oligonucleotide targeting the DNA  
CC encoding PTEN (also known as MMAC1/TEP1)  
XX  
SQ Sequence 18 BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;  
  
Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 267 GCGGTGCGCGCGCC 283  
Db 2 GGAGGTGCGCGCGCC 18  
  
RESULT 151  
AAS13999/C  
ID AAS13999 standard; DNA; 18 BP.  
XX  
AC AAS13999;  
XX  
DT 18-DEC-2001 (first entry)  
XX  
DE Human PTEN antisense oligonucleotide ISIS 29539.  
XX  
KW Human; PTEN; MMAC1; TEP1; protein phosphatase; antisense; ss;  
KW antiinflammatory; cytostatic; antidiabetic; antilipemic; infection;  
KW inflammation; tumour; diabetes; insulin resistance; insulin sensitivity;  
KW triglyceride control; cholesterol control; ISIS 29539.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..18  
FT /\*tag= a  
FT /\*note= "Phosphorothioate backbone"  
FT modified\_base 1..4  
FT /\*tag= b  
FT /\*note= "Optionally 2'-methoxyethyl residue (2'-MOE). When  
FT 1-4 are 2'-MOE all cytosines in this region are 5-  
FT methylcytosines"  
FT modified\_base 15..18  
FT /\*tag= c  
FT /\*note= "Optionally 2'-methoxyethyl residue (2'-MOE). When  
FT 15-18 are 2'-MOE all cytosines in this region are 5-  
FT methylcytosines"  
XX  
PN US6284538-B1.  
XX  
XX  
PD 04-SEP-2001.  
XX  
XX 24-MAY-2000; 2000US-00577902.  
PF  
XX 21-JUL-1999; 99US-00358381.  
PR  
PR 14-DEC-1999; 99WO-US029594.  
XX

PA (ISIS-) ISIS PHARM INC.  
XX  
PI Monia BP, Cowser LM, McKay R;  
XX  
XX WPI; 2001-588976/66.  
DR  
XX New antisense oligonucleotides targeting nucleic acids encoding PTEN,  
PT useful for treating diabetes, increasing insulin sensitivity, or  
PT decreasing insulin resistance, blood triglyceride or cholesterol levels  
PT in a diabetic animal.  
XX  
XX Claim 1; Col 41; 38pp; English.  
XX  
CC The invention relates to a compound targeted to a nucleic acid encoding  
CC PTEN (a dual specificity protein phosphatase), where the compound is an  
CC antisense oligonucleotide. The antisense oligonucleotides are useful in  
CC modulating the function of nucleic acids encoding PTEN, ultimately  
CC modulating the amount of PTEN produced. The antisense compounds can be used  
CC as diagnostics, therapeutics, prophylactics (e.g. to prevent or delay  
CC infection, inflammation or tumour formation), and as research agents and  
CC kits. The antisense compounds are also useful in treating diabetes,  
CC decreasing insulin resistance, increasing insulin sensitivity and  
CC decreasing blood triglyceride or cholesterol levels in a diabetic animal.  
CC The present sequence is an antisense oligonucleotide targeting the DNA  
CC encoding PTEN (also known as MMAC1/TEP1)  
XX  
SQ Sequence 18 BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;  
  
Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 87;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 114 GCGGCGCGCGGACGTGC 130  
Db 18 GCGGCGCGCGGACGTGC 2  
  
RESULT 152  
AAD40034  
ID AAD40034 standard; DNA; 18 BP.  
XX  
AC AAD40034;  
XX  
DT 22-OCT-2002 (first entry)  
XX  
DE Human PTEN antisense oligonucleotide, ISIS 29579.  
XX  
KW Human; phosphoinositide phosphatase; PTEN; liver; kidney; cholesterol;  
KW metabolic disease; diabetes; hyperproliferative; glucose; insulin; PEPCK;  
KW triglyceride; antisense gene therapy; cytostatic; adipose cell;  
KW antiproliferative; antisense; phosphorothioate backbone; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..18  
FT /\*tag= a  
FT /\*mod\_base= OTHER  
FT /\*note= "Phosphorothioate backbone"  
FT modified\_base 1..4  
FT /\*tag= b  
FT /\*mod\_base= OTHER  
FT /\*note= "2-methoxyethyl nucleotides"  
FT modified\_base 15..18  
FT /\*tag= c  
FT /\*mod\_base= OTHER  
FT /\*note= "2-methoxyethyl nucleotides"  
FT modified\_base 15  
FT /\*tag= d  
FT /\*mod\_base= m5C  
FT modified\_base 16  
FT /\*tag= e

```
FT modified_base /mod_base= m5c
FT 18 /tag= f
FT /mod_base= m5c
XX
XX US2002058638-A1.
PD 16-MAY-2002.
XX
XX 11-JUN-2001; 2001US-00878582.
XX
XX 21-JUL-1999; 99US-00358381.
PR 14-DEC-1999; 99WO-US029594.
PR 24-MAY-2000; 2000US-00577902.
XX
XX (MONI/) MONIA B P.
PA (COWS/) COWSERT L M.
PA (MCKA/) MCKAY R.
XX
XX Monia BP, Cowsert LM, Mckay R;
XX WPI; 2002-479187/51.
XX
XX New compound, preferably an antisense oligonucleotide, that hybridizes
PT and inhibits the expression of phosphoinositide phosphatase (PTEN), for
PT treating diseases such as diabetes, or a hyperproliferative condition.
XX
XX Claim 7; Page 31; 39pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
CC for modulating the expression of phosphoinositide phosphatase (PTEN). The
CC antisense compound is used to inhibit the expression of PTEN in cells or
CC tissues, preferably human, or rodent, such as mouse or rat, liver, kidney
CC or adipose cells or tissues. It is used to treat a disease or condition
CC associated with PTEN, such as a metabolic disease or condition,
CC preferably diabetes, especially Type 2 diabetes, or a hyperproliferative
CC condition. It is also used to decrease blood glucose or insulin levels in
CC an animal, preferably a diabetic human or rodent. It is also used to
CC inhibit expression of PEPCK in cells or tissues. It is also used to
CC decrease insulin resistance, or increase insulin sensitivity, in an
CC animal, preferably a diabetic human or rodent. It is used to decrease
CC blood triglyceride or cholesterol levels in an animal, preferably a
CC diabetic human or rodent. It is also used in antisense gene therapy. The
CC present sequence is an antisense oligonucleotide targetted to human PTEN
CC DNA
XX
XX Sequence 18 BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;
SQ Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 267 GCGGTCGCGCGCCGCC 283
Db 2 GGAGTGCGCGCGCCGC 18
RESULT 153
AAD40034/c
ID AAD40034 standard; DNA; 18 BP.
XX
XX AAD40034;
XX
XX 22-OCT-2002 (first entry)
XX
XX Human PTEN antisense oligonucleotide, ISIS 29579.
XX
XX Human; phosphoinositide phosphatase; PTEN; liver; kidney; cholesterol;
XX metabolic disease; diabetes; hyperproliferative; glucose; insulin; PEPCK;
XX triglyceride; antisense gene therapy; cytostatic; adipose cell;
XX antiproliferative; antisense; phosphorothioate backbone; ss.
XX Homo sapiens.
OS
```

```
OS Synthetic.
XX Key Location/Qualifiers
XX modified_base 1. .18
XX /tag= a
XX /mod_base= OTHER
XX modified_base 1. .4
XX /note= "Phosphorothioate backbone"
XX /tag= b
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX modified_base 15. .18
XX /tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX modified_base 15
XX /tag= d
XX /mod_base= m5c
XX modified_base 16
XX /tag= e
XX /mod_base= m5c
XX modified_base 18
XX /tag= f
XX /mod_base= m5c
XX
XX US2002058638-A1.
XX
XX 16-MAY-2002.
XX
XX 11-JUN-2001; 2001US-00878582.
XX
XX 21-JUL-1999; 99US-00358381.
PR 14-DEC-1999; 99WO-US029594.
PR 24-MAY-2000; 2000US-00577902.
XX
XX (MONI/) MONIA B P.
PA (COWS/) COWSERT L M.
PA (MCKA/) MCKAY R.
XX
XX Monia BP, Cowsert LM, Mckay R;
XX WPI; 2002-479187/51.
XX
XX New compound, preferably an antisense oligonucleotide, that hybridizes
PT and inhibits the expression of phosphoinositide phosphatase (PTEN), for
PT treating diseases such as diabetes, or a hyperproliferative condition.
XX
XX Claim 7; Page 31; 39pp; English.
XX
XX The invention relates to antisense compounds, compositions and methods
CC for modulating the expression of phosphoinositide phosphatase (PTEN). The
CC antisense compound is used to inhibit the expression of PTEN in cells or
CC tissues, preferably human, or rodent, such as mouse or rat, liver, kidney
CC or adipose cells or tissues. It is used to treat a disease or condition
CC associated with PTEN, such as a metabolic disease or condition,
CC preferably diabetes, especially Type 2 diabetes, or a hyperproliferative
CC condition. It is also used to decrease blood glucose or insulin levels in
CC an animal, preferably a diabetic human or rodent. It is also used to
CC inhibit expression of PEPCK in cells or tissues. It is also used to
CC decrease insulin resistance, or increase insulin sensitivity, in an
CC animal, preferably a diabetic human or rodent. It is used to decrease
CC blood triglyceride or cholesterol levels in an animal, preferably a
CC diabetic human or rodent. It is also used in antisense gene therapy. The
CC present sequence is an antisense oligonucleotide targetted to human PTEN
CC DNA
XX
XX Sequence 18 BP; 1 A; 7 C; 9 G; 1 T; 0 U; 0 Other;
SQ Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 114 GCGGCGCGCGAGCTGC 130
```

```

Db      18 GCGGCGCGCGCACTCC 2
|||||
RESULT 154
ABX16214
ID ABX16214 standard; DNA; 18 BP.
XX
AC ABX16214;
XX
XX 09-APR-2003 (first entry)
XX
DE Human leukocyte antigen, HLA-A, exon 2 PCR primer #1.
XX
XX Human; ss; human leukocyte antigen; HLA-A; HLA-DRB1; PCR; primer;
KW genotyping; fluorescence resonance energy transfer; FRET;
KW emission spectrum; mutations detection; common thermolabile mutation;
KW polymorphism; ligase chain reaction; LCR; genetic disorder; cancer;
KW infectious disease; translocation testing.
XX
XX Homo sapiens.
XX
XX US6472156-B1..
XX
XX 29-OCT-2002.
XX
XX 30-AUG-2000; 2000US-00651374.
XX
XX 30-AUG-1999; 99US-0151494P.
XX
XX (UTAH ) UNIV UTAH.
XX
XX Wittwer CT, Herrmann MG;
XX
XX WPI; 2003-196846/19.
XX
XX Nucleic acid sample analysis method for detecting mutations and genetic
PT disorders, comprising measuring emission of fluorescence resonance energy
PT transfer acceptors at different temperatures.
XX
XX Example 3; Col 26; 44pp; English.
XX
XX The invention relates to analysing a nucleic acid sample comprising 3 or
CC more loci, comprising using three pairs of oligonucleotide probes, each
CC comprising a fluorescence resonance energy transfer (FRET) donor, and
CC FRET acceptors having different emission spectrums, where the emission of
CC the acceptors is measured at different temperatures to provide an
CC indication of the alleles present at the loci of the nucleic acid. The
CC method is used for analysing nucleic acid samples in clinical
CC laboratories for detecting mutations such as common thermolabile
CC mutation, polymorphisms, PCR and ligase chain reaction (LCR) products,
CC genetic disorders, cancers and for infectious disease and translocation
CC testing. The emission measurements allow for precise measurements of
CC temporal coincidence of fluorescent emission and provide most accurate
CC Tm, allowing for maximum discrimination between Tm of probes from
CC different alleles, and thus maximising the number of allelic species that
CC can be discriminated for a given FRET donor and FRET acceptor pair. The
CC method was demonstrated by analysing the polymorphic regions of human
CC leukocyte antigen, HLA (hypervariable region in exon 2) and HLA-DRB1
CC (also in exon 2). The present sequence is a primer which amplifies a
CC 182bp region flanking the HLA-A hypervariable region
XX
XX Sequence 18 BP; 4 A; 7 C; 7 G; 0 T; 0 U; 0 Other;
SQ
Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 337 GACAGCGCGCGCTCGAG 353
|||||
Db 1 GACAGCGCGCGCGGAG 17

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RESULT 155
AAF27087
ID AAF27087 standard; DNA; 20 BP.
XX
AC AAF27087;
XX
XX 06-APR-2001 (first entry)
XX
DE Human MEK1 phosphorothioate antisense oligonucleotide, SEQ ID NO:9.
XX
XX Human MEK1; mitogen-activated protein kinase kinase kinase 1;
KW MEK kinase 1; MAP/ERK kinase kinase 1; pro-apoptotic;
KW apoptosis signal regulation; programmed cell death;
KW serine/threonine kinase; MAP kinase cascade; JNK/SAPK;
KW Jun N-terminal kinase/stress-activated protein kinase; Bcl-2 substrate;
KW NF-kappa-B-mediated transcription regulation; expression inhibition;
KW antisense; hyperproliferative disorder; cancer; inflammation;
XX phosphorothioate; ss.
XX
XX Homo sapiens.
XX
XX US6168950-B1.
XX
XX 02-JAN-2001.
XX
XX 23-JUL-1999; 99US-00359756.
XX
XX 23-JUL-1999; 99US-00359756.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Cowseert LM, Gaarde W, Ward DT;
XX WPI; 2001-122264/13.
XX
XX New antisense compound targeting nucleic acid encoding human mitogen-
PT activated protein kinase 1 (MEK1), useful for treating diseases
PT or conditions associated with MEK1 expression, or preventing
PT inflammation or tumor formation.
XX
XX Example 15; Col 39; 35pp; English.
XX
XX Sequences AAF27086-AAF27125 represent phosphorothioate antisense
CC oligonucleotides targeted to the human MEK1 gene, which inhibit its
CC expression. The antisense oligonucleotides were designed to target
CC different regions of the human MEK1 RNA, and were analysed for their
CC effect on MEK1 mRNA levels by quantitative real-time PCR. MEK1 (also
CC known as mitogen-activated protein kinase kinase kinase 1, MEK kinase 1
CC and MAP/ERK kinase kinase 1) is a dual-specific serine/threonine kinase
CC which mediates cellular responses to mitogenic stimuli, being involved in
CC JNK/SAPK (Jun N-terminal kinase/stress-activated protein kinase) MAP
CC kinase cascades. MEK1 regulates signalling events associated with
CC apoptosis (programmed cell death) and NF-kappa-B, both of which have been
CC associated with the development of hyperproliferative disorders such as
CC cancer. Specifically, MEK1 lies directly downstream of Bcl-2 in an
CC apoptotic signalling cascade, and plays a critical role in the control of
CC NF-kappa-B-mediated transcription at multiple points in the apoptotic
CC cascade. The oligonucleotides of the invention are useful for diagnosis,
CC prevention and treatment of conditions associated with MEK1 expression,
CC such as inflammation, and cancer and other hyperproliferative disorders
XX
XX Sequence 20 BP; 1 A; 9 C; 9 G; 1 T; 0 U; 0 Other;
SQ
Query Match 1.4%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 43 AGCAGCGCGCGCGCGGC 59
|||||
Db 4 AGCGCGCGCGCGCTGC 20

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RESULT 156
Query Match 1.4%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 43 AGCAGCGCGCGCGCGGC 59
|||||
Db 4 AGCGCGCGCGCGCTGC 20

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RESULT 156
Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 337 GACAGCGCGCGCTCGAG 353
|||||
Db 1 GACAGCGCGCGCGGAG 17

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AAT86420
ID AAT86420 standard; DNA; 15 BP.
XX
XX AC
XX AAT86420;
XX
XX DT 28-JAN-1998 (first entry)
XX
XX DE Trinucleotide simple tandem repeat (GGC)5, peptide nucleic acid probe.
XX
XX KW Peptide nucleic acid; PNA; hybridisation probe; polyamide backbone;
XX trinucleotide tandem repeat sequence; satellite; quantitation; ss.
XX
XX OS Synthetic.
XX
XX FH Key Location/Qualifiers
XX modified_base 1..15
XX /*tag= b
XX /note= "This sequence is a peptide nucleic acid, i.e. it
XX contains a polyamide backbone instead of a deoxyribose
XX backbone"
XX repeat_unit 1..3
XX /*tag= a
XX /rpt_type= TANDEM
XX
XX PN WO9714026-A2.
XX
XX PD 17-APR-1997.
XX
XX PP 10-OCT-1996; 96WO-CA000676.
XX
XX PR 12-OCT-1995; 95US-0005590P.
XX
XX PR 28-NOV-1995; 95US-0007616P.
XX
XX PA (LANS/) LANSORP P.
XX
XX PI Lansdorp P;
XX
XX DR WPI; 1997-236021/21.
XX
XX PT Detection of multiple copies of repeat sequences in telomeres - useful
XX for determining replicative potential of cells.
XX
XX PS Disclosure; Page 9; 38pp; English.
XX
XX CC This is a peptide nucleic acid (PNA) probe which is used for detecting
XX and optionally quantitating the trinucleotide simple tandem repeat CCG.
XX The probe is suitable for use in a new method for detecting and
XX optionally quantitating multiple copies of a repeat sequence. For use in
XX the method, the probe is labelled, preferably with a fluorescent
XX molecule, and the length of the repeat region can be determined based on
XX the intensity of the label signal
XX
XX SQ Sequence 15 BP; 0 A; 5 C; 10 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 1.3%; Score 13.4; DB 1; Length 15;
XX Best Local Similarity 93.3%; Pred. No. 70;
XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 113 GCGCGCGCGCGCAGC 127
XX |||||
XX Db 1 GCGCGCGCGCGCGC 15
XX
XX RESULT 157
XX AAZ62710
XX ID AAZ62710 standard; RNA; 15 BP.
XX
XX AC AAZ62710;
XX
XX DT 28-MAR-2000 (first entry)
XX
XX DE Substrate for HH ribozyme HCV-5965 which cleaves HCV RNA at nt. 5965.
XX
XX KW Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
XX cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
XX autoimmune disease; ss.
XX
XX OS Hepatitis C virus.
XX
XX PN WO9955847-A2.
XX
XX PD 04-NOV-1999.
XX
XX PP 26-APR-1999; 99WO-US009027.
XX
XX PR 27-APR-1998; 98US-0083217P.
XX
XX PR 18-SEP-1998; 98US-0100842P.
XX
XX PR 25-FEB-1999; 99US-00257608.
XX
XX PR 23-MAR-1999; 99US-00274553.
XX
XX PA (RIBO-) RIBOZYME PHARM INC.
XX
XX PI Blatt L, Mcswiggen JA, Roberts E, Pavco PA, Macejak D;
XX
XX DR WPI; 2000-062023/05.
XX
XX PT Novel ribozymes for the treatment of diseases and conditions related to
XX hepatitis C infection.
XX
XX PS Claim 1; Page 60; 123pp; English.
XX
XX CC The present sequence represents the preferred target sequence of an
XX enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves
XX the Hepatitis C virus (HCV) RNA sequence at the base position given in
XX the descriptor line. The HCV sequence was screened for optimal ribozyme
XX target sites using a computer folding algorithm and regions of the mRNA
XX which did not form secondary folding structures and contained potential
XX ribozyme cleavage sites were identified. Ribozymes were synthesised to
XX target these sites and their activities optimised by either varying the
XX length of the binding arms or by modification to prevent degradation by
XX nucleases. The ribozymes of the invention inhibit gene expression and/or
XX viral replication, and are used to treat diseases associated with
XX Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and
XX hepatocellular carcinoma. The ribozymes may be used in combination with
XX interferon to treat HCV infection, other infectious diseases, autoimmune
XX diseases, and cancer
XX
XX SQ Sequence 15 BP; 1 A; 8 C; 5 G; 0 T; 1 U; 0 Other;
XX
XX Query Match 1.3%; Score 13.4; DB 1; Length 15;
XX Best Local Similarity 93.3%; Pred. No. 70;
XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 385 GCGCGCGCGCGCGAG 399
XX |||||
XX Db 1 GCGCGCGCGCGCGAG 15
XX
XX RESULT 158
XX AAF45309/C
XX ID AAF45309 standard; DNA; 15 BP.
XX
XX AC AAF45309;
XX
XX DT 30-MAR-2001 (first entry)
XX
XX DE IGFBP2 oligonucleotide #148.
XX
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; plarais;
XX growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hyperneovascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.

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XX OS Homo sapiens.
XX PN W0200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX PFPI; 2001-041421/05.
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antisenese nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 6; Page 35; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antisenese oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antisenese
XX CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX CC F45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 0 A; 9 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 115 CGCGCGCGCGAGCTG 129
DB 15 CGCGCGCGCGAGCGG 1

RESULT 159
AAF45371
ID AAF45371 standard; DNA; 15 BP.
XX AC AAF45371;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP2 oligonucleotide #210.
XX KW Antisenese therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN W0200078341-A1.

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XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX PFPI; 2001-041421/05.
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antisenese nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 6; Page 35; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antisenese oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antisenese
XX CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX CC F45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 0 A; 4 C; 10 G; 1 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGCGCGCGCAG 126
DB 1 TGGCGCGCGCGCGG 15

RESULT 160
AAF45305/c
ID AAF45305 standard; DNA; 15 BP.
XX AC AAF45305;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP2 oligonucleotide #144.
XX KW Antisenese therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN W0200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.

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XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
PS inhibits or reduces growth factor mediated cell proliferation and/or  
PT inflammation.  
XX  
XX Example 6; Page 35; 201pp; English.  
XX  
XX The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX  
SQ Sequence 15 BP; 1 A; 3 C; 10 G; 1 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 15;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 109 GACTGGCGGCGCGG 123  
DB 1 GAGTGGCGGCGCGG 15  
|||||

RESULT 163  
AAF45369  
ID AAF45369 standard; DNA; 15 BP.  
XX  
XX AAF45369;  
AC  
XX 30-MAR-2001 (first entry)  
DT  
XX IGFBP2 oligonucleotide #208.  
DE  
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytosolic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.

XX Homo sapiens.  
XX  
XX WO200078341-A1.  
XX  
XX 28-DEC-2000.  
XX  
XX 21-JUN-2000; 2000WO-AU000693.  
XX  
XX 21-JUN-1999; 99US-0140345P.  
XX  
XX (MURD-) MURDOCH CHILDRENS RES INST.  
XX  
XX Wraight CU, Werther GA, Edmondson SR;  
XX  
XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
PT inhibits or reduces growth factor mediated cell proliferation and/or

PT inflammation.  
XX  
XX Example 6; Page 35; 201pp; English.  
XX  
XX The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX  
SQ Sequence 15 BP; 1 A; 4 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 15;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 110 ACTGGCGGCGCGG 124  
DB 1 AGTGGCGGCGCGG 15  
|||||

RESULT 164  
AAF45448  
ID AAF45448 standard; DNA; 15 BP.  
XX  
XX AAF45448;  
AC  
XX 30-MAR-2001 (first entry)  
DT  
XX IGFBP2 oligonucleotide #287.  
DE  
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytosolic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.

XX Homo sapiens.  
XX  
XX WO200078341-A1.  
XX  
XX 28-DEC-2000.  
XX  
XX 21-JUN-2000; 2000WO-AU000693.  
XX  
XX 21-JUN-1999; 99US-0140345P.  
XX  
XX (MURD-) MURDOCH CHILDRENS RES INST.  
XX  
XX Wraight CJ, Werther GA, Edmondson SR;  
XX  
XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
PT inhibits or reduces growth factor mediated cell proliferation and/or  
PT inflammation.

XX Example 6; Page 35; 201pp; English.

XX

CC The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 XX  
 SQ Sequence 15 BP; 0 A; 7 C; 6 G; 2 T; 0 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 70;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 414 GGCCCCCGCGTCG 428  
 DB 1 GGCCCCCGCGGTG 15  
 RESULT 165  
 ABX00561  
 ID ABX00561 standard; RNA; 15 BP.  
 AC  
 XX  
 AC ABX00561;  
 XX  
 XX  
 DT 23-DEC-2002 (first entry)  
 XX  
 DE Hepatitis C virus substrate #343 for HCV hammerhead ribozyme #343.  
 XX  
 KW Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;  
 KW HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide;  
 KW liver failure; hepatocellular carcinoma; HCV infection; drug therapy;  
 KW type I interferon; interferon alpha; interferon beta; cytostatic;  
 KW interferon gamma; consensus interferon; hepatotropic; antiinflammatory;  
 KW substrate; hammerhead ribozyme; HH ribozyme; ss.  
 XX  
 OS Hepatitis C virus.  
 XX  
 XX US2002082225-A1.  
 XX  
 PD 27-JUN-2002.  
 XX  
 XX 23-MAR-1999; 99US-00274553.  
 XX  
 XX 23-MAR-1999; 99US-00274553.  
 XX  
 XX (BLAT/) BLATT L.  
 XX (MCSW/) MCSWIGGEN J A.  
 XX (ROBE/) ROBERTS B.  
 XX (PVC/) PAVCO P A.  
 XX (MACE/) MACEJACK D.  
 XX  
 XX Blatt L, Mcswiggen JA, Roberts B, Pavco PA, Macejack D;  
 XX WPI; 2002-617759/66.  
 XX  
 XX New ribozymes targeting RNA derived from hepatitis C virus inhibit viral  
 XX replication and are useful to treat hepatitis C virus infections and  
 XX cirrhosis, liver failure or hepatocellular carcinoma.  
 XX  
 XX Claim 1; Page 31; 80pp; English.  
 XX  
 XX The present invention relates to enzymatic nucleic acids which  
 XX specifically cleave RNA derived from Hepatitis C virus (HCV). The  
 XX enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin

CC (HP) motif where the binding arms comprise sequences complementary to one  
 CC of the substrate sequences defined in the specification. The HCV  
 CC ribozymes are useful for modulating the expression and/or replication of  
 CC HCV. They can be used to treat cirrhosis, liver failure and/or  
 CC hepatocellular carcinoma. The HCV ribozymes are also useful for treating  
 CC a condition associated with HCV infection in conjunction with one or more  
 CC other drug therapies, particularly type I interferon, especially  
 CC interferon alpha, beta or gamma or consensus interferon. The present  
 CC sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note:  
 CC Some of the sequence data for this patent did not form part of the  
 CC printed specification. The complete sequence data for this patent was  
 CC obtained in electronic format directly from the USPTO web site at  
 CC seqdata.uspto.gov/psipdsDIDentry.html  
 XX  
 SQ Sequence 15 BP; 1 A; 8 C; 5 G; 0 T; 1 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 70;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 385 GCGCCCGCGCGCGAG 399  
 DB 1 GCGCCCGCGCGCGAG 15  
 RESULT 166  
 AAZ31706  
 ID AAZ31706 standard; DNA; 16 BP.  
 XX  
 AC AAZ31706;  
 XX  
 DT 19-JAN-2000 (first entry)  
 XX  
 DE PCR primer 93 for mutant neo gene.  
 XX  
 KW PCR primer; pRES2 antigen; protein expression; selectable marker gene;  
 KW internal ribosome entry site; IRES; vaccine; therapy; diagnosis; antigen;  
 KW immune response; HBV; ss.  
 XX  
 OS Synthetic.  
 XX  
 XX WO9953046-A2.  
 XX  
 PD 21-OCT-1999.  
 XX  
 XX 13-APR-1999; 99WO-US008069.  
 XX  
 XX 14-APR-1998; 98US-0081777P.  
 XX  
 XX (CHIR ) CHIRON CORP.  
 XX  
 XX Selby M, Thudium K, Dina D;  
 XX WPI; 1999-620421/53.  
 XX  
 XX Expressing recombinant polypeptide in mammalian cells, particularly for  
 XX producing hepatitis B antigen for vaccination.  
 XX  
 XX Example 1; Page 32; 51pp; English.  
 XX  
 XX This sequence represents a PCR primer for the mutant neo gene. The  
 XX invention relates to a method for expressing recombinant polypeptide (I)  
 XX in mammalian cells without subcloning the coding sequence. The method  
 XX comprises co-transfecting mammalian cells with three nucleic acid  
 XX elements: (1) containing a promoter; (2) containing a selectable marker  
 XX gene (SMG), internal ribosome entry site (IRES) and transcription  
 XX terminator (TT); and (3) containing a gene encoding (I). The cells are  
 XX cultured so that (I) and SMG are expressed, those expressing SMG are  
 XX selected, and selected cells that also express (I) are identified. In  
 XX (2), IRES is upstream of SMG and TT is downstream of SMG. The method is  
 XX used to produce (I) that are useful in vaccines, therapy and diagnosis,  
 XX e.g. antigens (from a wide variety of viruses, bacteria, parasites, fungi  
 XX or tumours, for generating an immune response), hormones, mediators of

CC transcription or translation, enzymes, metabolic intermediates,  
 CC immunomodulators etc. Specifically it is used to produce the pres2  
 CC antigen of hepatitis B virus. When the 3 elements are co-transfected,  
 CC they become linked together such that expression of SMG requires co-  
 CC expression of (i), eliminating the need for subcloning of (i) into an  
 CC expression cassette. The method allows direct use of polymerase chain  
 CC reaction products and synthetic or natural DNA, for rapid expression of  
 CC one or more genes (e.g. from a cDNA library) in mammalian cells.  
 CC Expressing SMG and (i) from a single promoter reduces the problem of  
 CC false positives and, putting (i) upstream of IRES means that it is  
 CC expressed at higher level than SMG, i.e. selected cells will be high-  
 CC level expressors of (i)

XX Sequence 16 BP; 6 A; 1 C; 4 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 1.3%; Score 13.4; DB 1; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 80;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 460 TTGCACACAGATGGAT 474  
 ||||| ||||| ||||| |||||  
 Db 1 TTGAACACAGATGGAT 15

RESULT 167  
 ABL45238  
 ID ABL45238 standard; DNA; 16 BP.  
 XX  
 AC ABL45238;  
 XX  
 DT 11-APR-2002 (first entry)  
 XX  
 DE Human chromosome 1p36-35 PCR primer SEQ ID NO:2282.  
 KW Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;  
 KW PCR primer; ss.  
 KW Homo sapiens.  
 OS  
 XX JP2001321190-A.  
 FN  
 XX 20-NOV-2001.  
 PD  
 XX 12-MAR-2001; 2001JP-00068285.  
 PF  
 XX 10-MAR-2000; 2000JP-00066716.  
 PR  
 XX (RIKA) RIKAGAKU KENKYUSHO.  
 PA (GENO-) GENOTEX YG.  
 PA  
 XX WPI; 2002-144136/19.  
 DR  
 XX Arraying genome clones.  
 PT  
 XX Claim 4; Page 49; 528pp; Japanese.  
 PS  
 XX The present invention describes a method of arraying genome clones. The  
 CC method comprises: (a) clones of the genomic libraries contained in  
 CC multiwell plates numbered for discrimination are mixed in each of the  
 CC multiwell plates; (b) a primer designed based on the chromosome marker  
 CC sequence is added to the mixture to carry out an amplification reaction;  
 CC (c) a signal corresponding to the marker is detected from the resultant  
 CC amplified product to specify the discrimination Nos. of the multiwell  
 CC plates containing the clones having said marker sequence; (d) the order  
 CC of the markers is changed so that the same discrimination Nos. succeed to  
 CC the maximum in the specified discrimination Nos. to array the multiwell  
 CC plates; (e) the clones in the multiwell plates of the specified  
 CC discrimination Nos. are mixed respectively in each wells of longitudinal  
 CC and lateral directions; (f) the mixed clones are cultured and the  
 CC resultant cultures are amplified by using the above primer; (g) signals  
 CC are detected from the amplified products; (h) the clones in the multiwell  
 CC plates are specified from the detected result; and (i) the clones are  
 CC reconstituted as the positions on the chromosome and arrayed. The

CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent  
 CC PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634  
 CC represent PCR primers for human chromosome 21q22.1, which are  
 CC specifically claimed for use in the present invention

XX Sequence 16 BP; 4 A; 3 C; 7 G; 2 T; 0 U; 0 Other;  
 SQ

Query Match 1.3%; Score 13.4; DB 1; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 80;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 716 CAGGTCCACAGTGA 730  
 ||||| ||||| ||||| |||||  
 Db 2 CAGGTCCACAGTGA 16

RESULT 168  
 AAD40092/c  
 ID AAD40092 standard; DNA; 16 BP.  
 XX  
 AC AAD40092;  
 XX  
 DT 22-OCT-2002 (first entry)  
 XX  
 DE Human DED4 (death effector domain) cDNA amplifying primer #1.  
 XX  
 KW Human; death domain; DD; death effector domain; DED; Chlamydia infection;  
 KW NB-ARC domain; apoptosis; oncogenic protein; bacterial infection; sepsis;  
 KW inflammation; allergy; autoimmunity; allograft rejection; cell division;  
 KW immune-based pathology; fibrosis; arthritis; graft versus host disease;  
 KW immunosuppressive; gene therapy; antitense therapy; primer; ss.  
 KW Homo sapiens.  
 OS  
 XX WO200240680-A2.  
 PN  
 XX 23-MAY-2002.  
 PD  
 XX 15-NOV-2001; 2001WO-US044844.  
 PF  
 XX 17-NOV-2000; 2000US-00715893.  
 PR  
 XX 29-JUN-2001; 2001US-0301889P.  
 PR  
 XX (BURN-) BURNHAM INST.  
 PA  
 XX Reed JC, Godzik A, Pawlowski K, Fiorentino L, Lee SH, Roth W;  
 PI Stemmer-Liwen F;  
 PI  
 XX WPI; 2002-500222/53.  
 DR  
 XX New polypeptide comprising a death domain or death effector domain,  
 XX useful for discovery of drugs that suppress infection, inflammation,  
 XX allergy, sepsis, autoimmunity, allograft rejection and other diseases.  
 XX  
 XX Example 7; Page 118; 209pp; English.

XX The invention relates to an isolated polypeptide comprising a death  
 CC domain (DD), death effector domain (DED) or NB-ARC domain. The invention  
 CC is useful for identifying a binding agent, preferably a protein or a drug  
 CC that binds a DD, DED or NB-ARC domain, by contacting a DD, DED or NB-ARC  
 CC domain from DAP3, IRAK4, CTDD (Chlamydia trachomatis DD protein), DED4 or  
 CC NIDD (NGFR-interacting Death Domain), with a candidate binding agent and  
 CC detecting the association of the domain and the candidate binding agent,  
 CC by yeast two hybrid assay, immunoprecipitation, SPA, ultraviolet (UV) or  
 CC chemical crosslinking nuclear magnetic resonance (NMR), mass  
 CC spectroscopy (MS) and FPA. The invention is useful for modulating the  
 CC level of a cell process such as cell proliferation, cell adhesion, cell  
 CC stress responses, responses to microbial infection and B cell  
 CC immunoglobulin class switching, in particular apoptosis within a cell.  
 CC Antibody specifically reactive with CTDD DD of C. trachomatis, C.  
 CC muridarum, C. pneumoniae, and C. psittaci or a nucleic acid encoding the  
 CC CTDD DD protein is useful for detecting a Chlamydia infection. The  
 CC invention is useful for modulating the activity of oncogenic proteins,

CC for treating a pathology caused by the oncogenic proteins and for  
 CC treating bacterial infections by modulating the activity of bacterial  
 CC proteins. The protein and antibody specific for it are useful for  
 CC discovery of drugs that suppress infection, inflammation, allergy,  
 CC sepsis, autoimmunity, allograft rejection and other diseases. The protein  
 CC is useful for treating immune-based pathologies, pathologies associated  
 CC with cell division, inflammatory diseases such as sepsis, fibrosis,  
 CC arthritis, graft versus host disease. The invention is used in antisense  
 CC therapy and gene therapy. The present sequence is human DED4 cDNA  
 CC amplifying primer

XX Sequence 16 BP; 0 A; 8 C; 5 G; 3 T; 0 U; 0 Other;

SQ Query Match 1.3%; Score 13.4; DB 1; Length 16;

Best Local Similarity 93.3%; Pred. No. 80;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 14 CAGCGCGCGCGGAG 28

Db 15 CAGACGCGCGCGGAG 1

RESULT 169

AAD59074/C

ID AAD59074 standard; DNA; 16 BP.

XX AAD59074;

DT 18-DEC-2003 (first entry)

DE Primer #1 used to amplify human DED4 cDNA.

XX Human; death domain; DD; death effector domain; DED; cell proliferation;  
 KW Chlamydia trachomatis death domain containing protein; fibrosis; sepsis;  
 KW neural growth factor receptor-interacting death domain; cell adhesion;  
 KW vasotropic; microbial infection; inflammation; allograft rejection; CIDP;  
 KW cell stress response; benign prostatic hypertrophy; antibacterial; NIDD;  
 KW apoptosis; infection; autoimmunity; allergy; hyperplasia; gene therapy;  
 KW neoplasia; restenosis; immunosuppressive; antibody therapy; cytostatic;  
 KW keloid; primer; ss.

XX Homo sapiens.

OS US2003049702-A1.

PN 13-MAR-2003.

PD 15-NOV-2001; 2001US-00001254.

XX 17-NOV-2000; 2000US-00715893.

PR 17-NOV-2000; 2000US-0367360P.

PR 29-JUN-2001; 2001US-0301889P.

XX (REED/) REED J C.

PA (GODZ/) GODZIK A.

PA (PAWL/) PAWLOWSKI K.

PA (FIOR/) FIORENTINO L.

PA (LEES/) LEE S H.

PA (ROTH/) ROTH W.

PA (STEN/) STENNER-LIEWEN F.

XX Read JC, Godzik A, Pawlowski K, Fiorentino L, Lee SH, Roth W;

PI Stenner-Liewen F;

XX WPI; 2002-500222/53.

DR New polypeptide comprising a death domain or death effector domain,  
 XX useful for discovery of drugs that suppress infection, inflammation,  
 PT allergy, sepsis, autoimmunity, allograft rejection and other diseases.

PS Example 7; Page 30; 99pp; English.

XX The present invention provides novel death domain (DD) and death effector

CC domain (DED) proteins and nucleic acids encoding them. The invention also  
 CC provides death domain containing protein such as Chlamydia trachomatis  
 CC death domain containing protein (CTPD) DD and neural growth factor  
 CC receptor-interacting death domain (NIDD) DD. The invention is useful for  
 CC identifying a binding agent (e.g. protein or drug) that binds a DD, DED  
 CC or NB-ARC domain from DAP3, IRAK4, CTDB, DED4 or NIDD with a candidate  
 CC binding agent and identifying an effective agent (e.g. protein or drug)  
 CC that modulates the association of a DD, DED or NB-ARC domain with protein  
 CC that binds the DD, DED or NB-ARC domain. The invention is also useful for  
 CC modulating the level of cell process such as apoptosis, cell adhesion,  
 CC cell proliferation, cell stress responses, responses to microbial  
 CC infection and B cell immunoglobulin class switching. DEDs, DEDs and NB-ARC  
 CC domains and/or anti-DD, anti-DD or anti-NB-ARC domain antibodies are  
 CC useful for discovery of drugs that suppress infection, autoimmunity,  
 CC inflammation, allergy, allograft rejection, sepsis and other diseases.  
 CC DD, DED or NB-ARC domain proteins are used to treat infection, allergy,  
 CC autoimmunity, inflammation, allograft rejection, sepsis, keratinocyte  
 CC hyperplasia, neoplasia, keloid, benign prostatic hypertrophy, fibrosis,  
 CC inflammatory hyperplasia and smooth muscle cell proliferation in arteries  
 CC following balloon angioplasty (restenosis). The invention is also used in  
 CC antibody therapy and gene therapy. The present sequence is a primer used  
 CC to amplify human DED4 cDNA

SQ Sequence 16 BP; 0 A; 8 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 16;

Best Local Similarity 93.3%; Pred. No. 80;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 14 CAGCGCGCGCGGAG 28

Db 15 CAGACGCGCGCGGAG 1

RESULT 170

AZ08873

ID AZ08873 standard; DNA; 17 BP.

XX AZ08873;

DT 08-NOV-1999 (first entry)

XX Fibrinogen receptor glycoprotein IIRa allele specific oligonucleotide.

DE Fibrinogen receptor; glycoprotein IIRa; GPIIb-IIIa; GPIIb;

KW thrombotic disease; platelet polymorphism; PIA2 polymorphism;

KW coronary heart disease; premature stroke; coronary artery thrombosis;

KW myocardial infarction; cerebrovascular disease; unstable angina;

KW restenosis; diagnosis; allele specific oligonucleotide; ASO; probe; ss.

XX Synthetic.

OS Homo sapiens.

XX US595266-A.

PN 21-SEP-1999.

PD 01-APR-1996; 96US-00626023.

XX 01-APR-1996; 96US-00626023.

PR (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.

XX Bray PF, Goldschmidt-Clermont PJ;

XX WPI; 1999-539564/45.

DR Use of a platelet polymorphism to diagnose risk of thrombotic disease.  
 XX Claim 10; Col 18; 13pp; English.

PS A method has been developed for diagnosing a subject at risk of having a

XX thrombotic disease. The method comprises detecting the presence of a PIA2  
 CC

CC polymorphism in the fibrinogen receptor glycoprotein IIa (GPIIa) gene.  
CC The method is useful for diagnosing risk of thrombotic diseases including  
CC coronary heart disease (CHD), premature stroke, coronary artery  
CC thrombosis, myocardial infarction, cerebrovascular disease, unstable  
CC angina, and restenosis. The present sequence represents a specifically  
CC claimed GPIIa allele specific oligonucleotide (ASO) probe for use in the  
CC method of the invention  
XX  
SQ Sequence 17 BP; 4 A; 4 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GAGCCCTGAGCAGG 17

Db 3 GAGCCCTGAGCAGG 17

RESULT 171

AAZ08871/c  
ID AAZ08871 standard; DNA; 17 BP.

XX AC AAZ08871;

XX DT 08-NOV-1999 (first entry)

XX DE Fibrinogen receptor glycoprotein IIa wild type target sequence.

XX KW Fibrinogen receptor; glycoprotein Iib-IIia; GPIIb-IIa; GPIIa;  
XX KW thrombotic disease; platelet polymorphism; PIA2 polymorphism;  
XX KW coronary heart disease; premature stroke; coronary artery thrombosis;  
XX KW myocardial infarction; cerebrovascular disease; unstable angina;  
XX KW restenosis; diagnosis; ss.

XX OS Homo sapiens.

XX PN US9595266-A.

XX PD 21-SEP-1999.

XX PF 01-APR-1996; 96US-00626023.

XX PR 01-APR-1996; 96US-00626023.

XX PA (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.

XX PI Bray PF, Goldschmidt-Clermont PJ;

XX DR WPI; 1999-539564/45.

XX PT Use of a platelet polymorphism to diagnose risk of thrombotic disease.

XX PS Claim 9; Col 18; 13pp; English.

XX CC A method has been developed for diagnosing a subject at risk of having a  
XX CC thrombotic disease. The method comprises detecting the presence of a PIA2  
XX CC polymorphism in the fibrinogen receptor glycoprotein IIa (GPIIa) gene.  
XX CC The method is useful for diagnosing risk of thrombotic diseases including  
XX CC coronary heart disease (CHD), premature stroke, coronary artery  
XX CC thrombosis, myocardial infarction, cerebrovascular disease, unstable  
XX CC angina, and restenosis. The present sequence represents a specifically  
XX CC claimed wild type GPIIa target sequence for use in the method of the  
XX CC invention

XX SQ Sequence 17 BP; 1 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GAGCCCTGAGCAGG 17

||||| |||||

Db 15 GAGCCCGAGGCGCAGG 1

RESULT 172

AAA36571/c  
ID AAA36571 standard; DNA; 17 BP.

XX AC AAA36571;

XX DT 26-JUL-2000 (first entry)

XX DE Human genomic SNP allele specific oligonucleotide SEQ ID NO:636.

XX KW Human; single nucleotide polymorphism; SNP; genotyping; DNA analysis;  
XX KW allele specific oligonucleotide; ASO; reduced complexity genome; RCG;  
XX KW genomic classification; identification; DNA fingerprinting;  
XX KW tumour characterisation; hybridisation; ss.

XX OS Homo sapiens.

XX PN WO200018960-A2.

XX PD 06-APR-2000.

XX PF 24-SEP-1999; 99WO-US022283.

XX PR 25-SEP-1998; 98US-0101757P.

XX PA (MASI ) MASSACHUSETTS INST TECHNOLOGY.

XX PI Landers JE, Jordan B, Houseman DE, Charest A;

XX DR WPI; 2000-293181/25.

XX PT Detection of single nucleotide polymorphisms in genomes by preparation  
XX PT and analysis of reduced complexity genomes, useful for genotyping,  
XX PT fingerprinting and determining allele frequency of SNPs.

XX PS Disclosure; Page 72; 111pp; English.

XX CC A method has been developed for detecting the presence or absence of a  
XX CC single nucleotide polymorphism (SNP) allele in a genomic sample. The  
XX CC method comprises preparing a reduced complexity genome (RCG) from the  
XX CC genomic sample and analysing the RCG for the presence or absence of a SNP  
XX CC allele. The method can be used to characterise a tumour, to generate a  
XX CC genomic pattern for an individual genome or to generate a genomic  
XX CC classification code for a genome. The method can be used to assess  
XX CC whether a subject is at risk for developing a disease or to identify a  
XX CC set of SNP alleles associated with a disease. The method can also be used  
XX CC to perform linkage analysis. AAA35944 to AAA35947 represent sequences  
XX CC used in the exemplification of the present invention. AAA35948 to  
XX CC AAA36632 represent nucleotide sequences containing SNPs

XX SQ Sequence 17 BP; 1 A; 9 C; 3 G; 3 T; 0 U; 1 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 90;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 240 GGGGAGTGGGACCGGCT 256

Db 17 GGGKAGGGGGACCGAGT 1

RESULT 173

AAA36602  
ID AAA36602 standard; DNA; 17 BP.

XX AC AAA36602;

XX DT 26-JUL-2000 (first entry)

XX DE Human genomic SNP allele specific oligonucleotide SEQ ID NO:667.



XX Human; single nucleotide polymorphism; SNP; genotyping; DNA analysis;  
KW allele specific oligonucleotide; ASO; reduced complexity genome; RCG;  
KW genomic classification; identification; DNA fingerprinting;  
KW tumour characterisation; hybridisation; ss.  
XX Homo sapiens.  
XX WO200018960-A2.  
XX 06-APR-2000.  
XX 24-SEP-1999; 99WO-US022283.  
XX 25-SEP-1998; 98US-0101757P.  
XX (MASI ) MASSACHUSETTS INST TECHNOLOGY.  
XX Landers JE, Jordan B, Housman DE, Charest A;  
XX WPI; 2000-293181/25.  
XX Detection of single nucleotide polymorphisms in genomes by preparation  
PT and analysis of reduced complexity genomes, useful for genotyping,  
PT fingerprinting and determining allele frequency of SNPs.  
XX Disclosure; Page 72; 111pp; English.  
XX A method has been developed for detecting the presence or absence of a  
CC single nucleotide polymorphism (SNP) allele in a genomic sample. The  
CC method comprises preparing a reduced complexity genome (RCG) from the  
CC genomic sample and analysing the RCG for the presence or absence of a SNP  
CC allele. The method can be used to characterise a tumour, to generate a  
CC genomic pattern for an individual genome or to generate a genomic  
CC classification code for a genome. The method can be used to assess  
CC whether a subject is at risk for developing a disease or to identify a  
CC set of SNP alleles associated with a disease. The method can also be used  
CC to perform linkage analysis. AAA35944 to AAA35947 represent sequences  
CC used in the exemplification of the present invention. AAA35948 to  
CC AAA36632 represent nucleotide sequences containing SNPs  
XX  
SQ Sequence 17 BP; 3 A; 3 C; 9 G; 1 T; 0 U; 1 Other;  
  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 90;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 240 GGGGAGTGGGACCGCT 256  
Db 1 GGGKAGGGGACCGCT 17  
|||:| | | | | | | |  
| | | | | | | | | |  
  
RESULT 174  
AAF06092/C  
ID AAF06092 standard; DNA; 17 BP.  
XX  
XX AAF06092;  
AC  
AC  
DT 16-FEB-2001 (first entry)  
XX  
DE Hammerhead ribozyme substrate #2889.  
XX  
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
KW interferon alpha; ss.  
XX Homo sapiens.  
XX  
XX WO200061729-A2.  
PN  
XX 19-OCT-2000.  
PD  
XX 11-APR-2000; 2000WO-US009721.  
PF  
XX

PR 12-APR-1999; 99US-0129390P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX Blatt L, Zwick M, Pavco P, Meswiggen J;  
PI  
XX WPI; 2000-647423/62.  
DR  
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,  
PT useful for producing e.g. granulocyte colony stimulating factor protein,  
PT interferon alpha and erythropoietin.  
XX  
XX Claim 42; Page 122; 164pp; English.  
XX  
XX The present invention relates to enzymatic and antisense nucleic acid  
CC molecules that act as inhibitors of the expression of repressor genes  
CC encoding the TR2 Orphan receptor, EAR3/COUP-1, the GATA transcription  
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
CC Inhibition of the repressors removes prevents inhibition (and  
CC consequently increases expression of) genes involved in the production of  
CC erythropoietin, granulocyte colony stimulating factor protein and  
CC interferon alpha  
XX  
SQ Sequence 17 BP; 2 A; 5 C; 7 G; 0 T; 3 U; 0 Other;  
  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 343 GGGCCTCGAGTCCC 357  
Db 17 GGAGCCTCGAGTCCC 3  
||| | | | | | | | | | | | | | | | |  
| | | | | | | | | | | | | | | |  
  
RESULT 175  
ABK01788  
ID ABK01788 standard; RNA; 17 BP.  
XX  
XX ABK01788;  
AC  
XX  
XX 12-MAR-2002 (first entry)  
DT  
XX  
XX Human NOGO Zinzyne #110.  
DE  
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
KW DNazyme; inozyme; G-cleaver; amberyne; zinzyne; lymphoma; leukaemia;  
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
KW inflammatory arthropathy; central nervous system injury;  
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
KW Parkinson's disease; ataxia; Huntington's disease;  
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
OS  
XX WO200159103-A2.  
PN  
XX  
XX 16-AUG-2001.  
PD  
XX  
XX 09-FEB-2001; 2001WO-US004273.  
PF  
XX  
XX 11-FEB-2000; 2000US-0181797P.  
PR  
XX 28-FEB-2000; 2000US-0185516P.  
PR  
XX 06-MAR-2000; 2000US-0187128P.  
PR  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX (BLAT/) BLATT L.  
PA  
XX (MCSW/) MCSWIGGEN J.

PA (CHOW/) CHOWRIRA B M.  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 XX  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 XX Claim 88; Page 97; 200pp; English.  
 XX  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNzyme) an Inozyme (an endolytic nucleic acid cleaving a NYN motif) or  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a zinzyme molecule of the invention  
 XX  
 XX Sequence 17 BP; 1 A; 8 C; 8 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Oy 111 CTGGCGGCGCGGCA 125  
 Db 3 CCGGCGGCGCGGCA 17  
 |||||  
 RESULT 176  
 ABK02248/c  
 ID ABK02248 standard; RNA; 17 BP.  
 XX  
 XX AC ABK02248;  
 XX  
 XX DT 12-MAR-2002 (first entry)  
 XX  
 XX DE Human NOGO DNzyme #160.  
 XX  
 XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;

inflammatory arthropathy; central nervous system injury;  
 cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 Parkinson's disease; ataxia; Huntington's disease;  
 Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 Homo sapiens.  
 Synthetic.  
 W0200159103-A2.  
 16-AUG-2001.  
 09-FEB-2001; 2001WO-US0004273.  
 11-FEB-2000; 2000US-0181797P.  
 28-FEB-2000; 2000US-0185516P.  
 06-MAR-2000; 2000US-0187128P.  
 (RIBO-) RIBOZYME PHARM INC.  
 (BLAT/) BLATT L.  
 (MCSW/) MCSWIGGEN J.  
 (CHOW/) CHOWRIRA B M.  
 Blatt L, Mcswiggen J, Chowrira BM;  
 WPI; 2001-607195/69.  
 Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 constructs, which down regulate expression of a CD20 gene or neurite  
 growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 central nervous system injury.  
 Claim 88; Page 115; 200pp; English.  
 The invention relates to a nucleic acid molecule which down regulates  
 expression of a CD20 gene and a nucleic acid molecule which down  
 regulates expression of a neurite growth inhibitor gene (NOGO). The  
 nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 DNzyme) an Inozyme (an endolytic nucleic acid cleaving a NYN motif) or  
 possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 the cell and treat a patient having a condition associated with the level  
 of CD20. The treatment may further comprise the use of one or more  
 therapies. In particular, the CD20 targeting nucleic acid may be used to  
 treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 cell and treat a patient having a condition associated with the level of  
 NOGO. The treatment may further comprise the use of one or more  
 therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 treat central nervous system (CNS) injury and cerebrovascular accident  
 (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 disease, muscular dystrophy, and/or other neurodegenerative disease  
 states which respond to the modulation of NOGO expression. The present  
 sequence is a zinzyme molecule of the invention  
 Sequence 17 BP; 3 A; 4 C; 2 G; 0 T; 8 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 602 GAGATGATCTGAAA 616  
 Db 17 GAGATGAATCTGAAA 3

RESULT 177  
 ID ABK00441/c  
 AC ABK00441  
 DT 12-MAR-2002 (first entry)  
 DE Human NOGO Hammerhead Ribozyme #441.

XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberyzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

XX Homo sapiens.  
 OS Synthetic.  
 XX WO200159103-A2.  
 XX 16-AUG-2001.  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 PI WPI; 2001-607195/69.  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.

XX Claim 88; Page 73; 200pp; English.  
 PS The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberzyme (cleaving RNA with an NGN tripler), a zinzyme (cleaving RNA  
 CC with a VGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell

CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a hammerhead ribozyme of the invention

XX  
 SQ Sequence 17 BP; 5 A; 5 C; 1 G; 0 T; 6 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. NO. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 601 GGAGATGGATCTGAA 615  
 Db 15 GGAGATGAATCTGAA 1

RESULT 178  
 ABN02506  
 ID ABN02506 standard; DNA; 17 BP.  
 XX  
 AC ABN02506;  
 XX  
 DT 29-MAY-2002 (first entry)  
 DE Human GDMPL-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:2498.

XX Human; genome-derived myosin-like protein 1; GDMPL-1; hGDMPL-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200192524-A2.  
 XX 06-DEC-2001.  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 30-JAN-2001; 2001WO-US000670.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX (AEOM-) AEOMICA INC.  
 PA  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 XX New polypeptide, for raising antibodies that recognize hGDMPL-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser

desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
Disclosure; SEQ ID NO 2498; 214pp; English.  
The present invention describes a human genome-derived myosin-like protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-1 can be used in gene therapy and vaccine production. The hGDMPLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMPLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMPLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMPLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMPLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption/ionisation, as therapeutic supplement in patients having specific deficiency in hGDMPLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a disorder associated with the expression of hGDMPLP-1, in particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMPLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequence  
Sequence 17 BP; 5 A; 6 C; 4 G; 2 T; 0 U; 0 Other;  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 814 CCTTCACCATGGC 828  
Db 2 CCTGCACCATGGC 16  
RESULT 179  
ABN08131  
ID ABN08131 standard; DNA; 17 BP.  
XX AC ABN08131;  
XX 29-MAY-2002 (first entry)  
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8123.  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.  
XX Homo sapiens.  
XX WO200192524-A2.  
XX 06-DEC-2001.  
XX 25-MAY-2001; 2001WO-US016981.  
XX 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.  
XX 27-SEP-2000; 2000US-0236359P.  
XX 04-OCT-2000; 2000GB-00024263.  
XX 30-JAN-2001; 2001WO-US000661.  
XX 30-JAN-2001; 2001WO-US000662.  
XX 30-JAN-2001; 2001WO-US000663.  
XX 30-JAN-2001; 2001WO-US000664.  
XX 30-JAN-2001; 2001WO-US000665.  
XX 30-JAN-2001; 2001WO-US000666.  
XX 30-JAN-2001; 2001WO-US000667.  
XX 30-JAN-2001; 2001WO-US000668.  
XX 30-JAN-2001; 2001WO-US000669.

30-JAN-2001; 2001WO-US000670.  
05-FEB-2001; 2001US-0266860P.  
(AEOM-) AEOMICA INC.  
Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
WPI; 2002-179446/23.  
New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
Disclosure; SEQ ID NO 8123; 214pp; English.  
The present invention describes a human genome-derived myosin-like protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-1 can be used in gene therapy and vaccine production. The hGDMPLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMPLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMPLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMPLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMPLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption/ionisation, as therapeutic supplement in patients having specific deficiency in hGDMPLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a disorder associated with the expression of hGDMPLP-1, in particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMPLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequence  
Sequence 17 BP; 4 A; 5 C; 4 G; 4 T; 0 U; 0 Other;  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 661 GCGGCTTCACGACT 675  
Db 3 GCGGCTTCACGACT 17  
RESULT 180  
ABN08132  
ID ABN08132 standard; DNA; 17 BP.  
XX AC ABN08132;  
XX 29-MAY-2002 (first entry)  
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8124.  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.  
XX Homo sapiens.  
XX WO200192524-A2.  
XX 06-DEC-2001.  
XX 25-MAY-2001; 2001WO-US016981.  
XX 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.

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PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001WO-US0266860P.
XX PA
XX (AEOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX Disclosure; SEQ ID NO 8124; 214pp; English.
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
CC capture probes for surface-enhanced laser desorption ionisation, as
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
CC production, and in vaccines or for replacement therapy. The
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
CC disorder associated with the expression of hGDMPLP-1, in particular heart
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
CC The present sequence represents an oligomer used in the screening of the
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence
XX SQ Sequence 17 BP; 3 A; 5 C; 5 G; 4 T; 0 U; 0 Other;
XX Query Match 1.3%; Score 13.4; DB 1; Length 17;
XX Best Local Similarity 93.3%; Pred. No. 90;
XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX AC ABN02505;
XX 29-MAY-2002 (first entry)
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:2497.
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; ampiclon; screening; ss.
XX RESULT 181
XX ABN02505
XX ID ABN02505 standard; DNA; 17 BP.
XX XX
XX AC ABN02505;
XX XX
XX DT 29-MAY-2002 (first entry)
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:2497.
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX KW skeletal muscle disorder; ampiclon; screening; ss.
XX
XX OS Homo sapiens.
XX PN WO200192524-A2.
XX PD 06-DEC-2001.
XX PF 25-MAY-2001; 2001WO-US016981.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.
XX PR 04-OCT-2000; 2000GB-00024263.
XX PR 30-JAN-2001; 2001WO-US000661.
XX PR 30-JAN-2001; 2001WO-US000662.
XX PR 30-JAN-2001; 2001WO-US000663.
XX PR 30-JAN-2001; 2001WO-US000664.
XX PR 30-JAN-2001; 2001WO-US000665.
XX PR 30-JAN-2001; 2001WO-US000666.
XX PR 30-JAN-2001; 2001WO-US000667.
XX PR 30-JAN-2001; 2001WO-US000668.
XX PR 30-JAN-2001; 2001WO-US000669.
XX PR 30-JAN-2001; 2001WO-US000670.
XX PR 05-FEB-2001; 2001US-0266860P.
XX PA
XX (AEOM-) AEOMICA INC.
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
or as specific biomolecule capture probes for surface-enhanced laser
desorption ionization, comprises human myosin-like protein hGDMPLP-1.
Disclosure; SEQ ID NO 2497; 214pp; English.
The present invention describes a human genome-derived myosin-like
protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
1 can be used in gene therapy and vaccine production. The hGDMPLP-1
nucleic acids can be used as probes to detect, characterise and quantify
hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
provide initial substrates for the recombinant engineering of hGDMPLP-1
protein variants having desired phenotypic improvements, and for
expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
used as immunogens to raise antibodies that specifically recognise hGDMPLP
-1 proteins, as standards in assays used to determine the concentration
and/or amount specifically of hGDMPLP proteins, as specific biomolecule
capture probes for surface-enhanced laser desorption ionisation, as
therapeutic supplement in patients having specific deficiency in hGDMPLP-1
production, and in vaccines or for replacement therapy. The
polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
disorder associated with the expression of hGDMPLP-1, in particular heart
and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
The present sequence represents an oligomer used in the screening of the
hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format directly from WIPO
at ftp.wipo.int/pub/published_pct_sequence
SQ Sequence 17 BP; 5 A; 6 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 814 CCTTACCAGATGGC 828
DB 3 CCTGCCACCATGGC 17
RESULT 182
ABN08133

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AD ABN08133 standard; DNA; 17 BP.  
XX AC AEN08133;  
XX DT 29-MAY-2002 (first entry)  
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8125.  
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;  
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX KW skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX PN WO200192524-A2.  
XX PD 06-DEC-2001.  
XX PF 25-MAY-2001; 2001WO-US016981.  
XX PR 26-MAY-2000; 2000US-0207456P.  
XX PR 21-SEP-2000; 2000US-0234687P.  
XX PR 27-SEP-2000; 2000US-0236359P.  
XX PR 04-OCT-2000; 2000GB-00024263.  
XX PR 30-JAN-2001; 2001WO-US000661.  
XX PR 30-JAN-2001; 2001WO-US000661.  
XX PR 30-JAN-2001; 2001WO-US000663.  
XX PR 30-JAN-2001; 2001WO-US000664.  
XX PR 30-JAN-2001; 2001WO-US000665.  
XX PR 30-JAN-2001; 2001WO-US000666.  
XX PR 30-JAN-2001; 2001WO-US000667.  
XX PR 30-JAN-2001; 2001WO-US000668.  
XX PR 30-JAN-2001; 2001WO-US000669.  
XX PR 30-JAN-2001; 2001WO-US000670.  
XX PR 05-FEB-2001; 2001US-0266860P.  
XX PA (AEOM-) AEOMICA INC.  
XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX PT or as specific biomolecule capture probes for surface-enhanced laser  
XX PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX PS Disclosure; SEQ ID NO 8125; 214pp; English.  
XX CC The present invention describes a human genome-derived myosin-like  
XX CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX CC nucleic acids can be used as probes to detect, characterise and quantify  
XX CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX CC protein variants having desired phenotypic improvements, and for  
XX CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX CC -1 proteins, as standards in assays used to determine the concentration  
XX CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX CC capture probes for surface-enhanced laser desorption ionisation, as  
XX CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX CC production, and in vaccines or for replacement therapy. The  
XX CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX CC disorder associated with the expression of hGDMPLP-1, in particular heart  
XX CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX CC The present sequence represents an oligomer used in the screening of the  
XX CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX CC The sequence data for this patent did not form part of the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX SQ Sequence 17 BP; 2 A; 5 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 661 GCGGCTTCACGCT 675  
Db 1 GCGGCTTCACGCT 15  
RESULT 183  
ABN02507  
ID AEN02507 standard; DNA; 17 BP.  
XX AC AEN02507;  
XX DT 29-MAY-2002 (first entry)  
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:2499.  
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;  
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX KW skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX PN WO200192524-A2.  
XX PD 06-DEC-2001.  
XX PF 25-MAY-2001; 2001WO-US016981.  
XX PR 26-MAY-2000; 2000US-0207456P.  
XX PR 21-SEP-2000; 2000US-0234687P.  
XX PR 27-SEP-2000; 2000US-0236359P.  
XX PR 04-OCT-2000; 2000GB-00024263.  
XX PR 30-JAN-2001; 2001WO-US000661.  
XX PR 30-JAN-2001; 2001WO-US000662.  
XX PR 30-JAN-2001; 2001WO-US000663.  
XX PR 30-JAN-2001; 2001WO-US000664.  
XX PR 30-JAN-2001; 2001WO-US000665.  
XX PR 30-JAN-2001; 2001WO-US000666.  
XX PR 30-JAN-2001; 2001WO-US000667.  
XX PR 30-JAN-2001; 2001WO-US000668.  
XX PR 30-JAN-2001; 2001WO-US000669.  
XX PR 30-JAN-2001; 2001WO-US000670.  
XX PR 05-FEB-2001; 2001US-0266860P.  
XX PA (AEOM-) AEOMICA INC.  
XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX PT or as specific biomolecule capture probes for surface-enhanced laser  
XX PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX PS Disclosure; SEQ ID NO 2499; 214pp; English.  
XX CC The present invention describes a human genome-derived myosin-like  
XX CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX CC nucleic acids can be used as probes to detect, characterise and quantify  
XX CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX CC protein variants having desired phenotypic improvements, and for  
XX CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX CC -1 proteins, as standards in assays used to determine the concentration  
XX CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX CC capture probes for surface-enhanced laser desorption ionisation, as  
XX CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX CC production, and in vaccines or for replacement therapy. The  
XX CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX CC disorder associated with the expression of hGDMPLP-1, in particular heart  
XX CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX CC The present sequence represents an oligomer used in the screening of the  
XX CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX CC The sequence data for this patent did not form part of the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX SQ Sequence 17 BP; 2 A; 5 C; 6 G; 4 T; 0 U; 0 Other;

CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 4 A; 6 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 814 CCTTACCAGATGCG 828  
 Db 1 CCTGACCAGATGCG 15  
 RESULT 184  
 ABV85758/c  
 ID ABV85758 standard; DNA; 17 BP.  
 XX  
 AC ABV85758;  
 XX  
 DT 11-DEC-2002 (first entry)  
 XX  
 DE Human pp-GaNTase 10 scanning 17-mer SEQ ID NO:751.  
 XX  
 KW Human; UDP-GalNAC:polypeptide N-acetylglactosaminyltransferase 10;  
 KW pp-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN EP1243660-A2.  
 XX  
 PD 25-SEP-2002.  
 XX  
 PF 25-JAN-2002; 2002EP-00001161.  
 XX  
 PR 30-JAN-2001; 2001WO-US0000663.  
 PR 30-JAN-2001; 2001WO-US0000664.  
 PR 30-JAN-2001; 2001WO-US0000665.  
 PR 30-JAN-2001; 2001WO-US0000666.  
 PR 30-JAN-2001; 2001WO-US0000667.  
 PR 30-JAN-2001; 2001WO-US0000668.  
 PR 30-JAN-2001; 2001WO-US0000669.  
 PR 30-JAN-2001; 2001WO-US0000670.  
 PR 23-MAY-2001; 2001US-00864761.  
 PR 30-AUG-2001; 2001US-0315984P.  
 XX  
 PA (AEOM-) AEOMICA INC.  
 XX  
 PI Zhang J, Gu Y, Nguyen C;  
 XX  
 DR WPI; 2002-724954/79.  
 XX  
 PT Nucleic acid encoding human UDP-GalNAC:polypeptide N-  
 PT cetylglactosaminyltransferase 10 protein is useful to diagnose, prevent  
 PT and treat disorders associated with reduced or over expression of the  
 PT encoded protein.  
 XX  
 PS Example 2; SEQ ID NO 751; 59pp; English.  
 XX  
 CC The present invention describes an isolated nucleic acid (I) encoding a  
 CC human UDP-GalNAC:polypeptide N-acetylglactosaminyltransferase 10 (pp-  
 CC GaNTase 10, EC 2.4.1.41) protein. Human pp-GaNTase 10 is located to  
 CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the  
 CC present invention can be used in therapy, particularly to prevent or  
 CC treat a disorder associated with decreased expression or activity of pp-  
 CC GaNTase. The sequences given in ABV85011 to ABV86689 and ABP53502 to  
 CC ABP53504 are given in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent is not represented in the printed

CC GaNTase. The sequences given in ABV85011 to ABV86689 and ABP53502 to  
 CC ABP53504 are given in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent is not represented in the printed  
 CC specification but is based on sequence information supplied by the  
 CC European Patent Office  
 XX  
 SQ Sequence 17 BP; 2 A; 5 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 31 GCCCTCAAGCGGAGC 45  
 Db 17 GCCCTCAAGCGGAGC 3  
 RESULT 185  
 ABV85761/c  
 ID ABV85761 standard; DNA; 17 BP.  
 XX  
 AC ABV85761;  
 XX  
 DT 11-DEC-2002 (first entry)  
 XX  
 DE Human pp-GaNTase 10 scanning 17-mer SEQ ID NO:754.  
 XX  
 KW Human; UDP-GalNAC:polypeptide N-acetylglactosaminyltransferase 10;  
 KW pp-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN EP1243660-A2.  
 XX  
 PD 25-SEP-2002.  
 XX  
 PF 25-JAN-2002; 2002EP-00001161.  
 XX  
 PR 30-JAN-2001; 2001WO-US0000663.  
 PR 30-JAN-2001; 2001WO-US0000664.  
 PR 30-JAN-2001; 2001WO-US0000665.  
 PR 30-JAN-2001; 2001WO-US0000666.  
 PR 30-JAN-2001; 2001WO-US0000667.  
 PR 30-JAN-2001; 2001WO-US0000668.  
 PR 30-JAN-2001; 2001WO-US0000669.  
 PR 30-JAN-2001; 2001WO-US0000670.  
 PR 23-MAY-2001; 2001US-00864761.  
 PR 30-AUG-2001; 2001US-0315984P.  
 XX  
 PA (AEOM-) AEOMICA INC.  
 XX  
 PI Zhang J, Gu Y, Nguyen C;  
 XX  
 DR WPI; 2002-724954/79.  
 XX  
 PT Nucleic acid encoding human UDP-GalNAC:polypeptide N-  
 PT cetylglactosaminyltransferase 10 protein is useful to diagnose, prevent  
 PT and treat disorders associated with reduced or over expression of the  
 PT encoded protein.  
 XX  
 PS Example 2; SEQ ID NO 754; 59pp; English.  
 XX  
 CC The present invention describes an isolated nucleic acid (I) encoding a  
 CC human UDP-GalNAC:polypeptide N-acetylglactosaminyltransferase 10 (pp-  
 CC GaNTase 10, EC 2.4.1.41) protein. Human pp-GaNTase 10 is located to  
 CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the  
 CC present invention can be used in therapy, particularly to prevent or  
 CC treat a disorder associated with decreased expression or activity of pp-  
 CC GaNTase. The sequences given in ABV85011 to ABV86689 and ABP53502 to  
 CC ABP53504 are given in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent is not represented in the printed

CC specification but is based on sequence information supplied by the  
CC European Patent Office  
XX SQ Sequence 17 BP; 2 A; 4 C; 7 G; 4 T; 0 U; 0 Other;  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 30 AGCCCTCAAGCGGAG 44  
DB 15 AGCCCTCAATGCGGAG 1  
RESULT 186  
ABQ99697/c  
ID ABQ99697 standard; DNA; 17 BP.  
XX AC ABQ99697;  
XX 08-NOV-2002 (first entry)  
DT Murine Ikbk exon 37 acceptor site.  
DE Murine; IKBKAP; Familial Dysautonomia; FD; Riley-Day syndrome; ds;  
KW Hereditary Sensory and Autonomic Neuropathy Type III; carrier screening.  
XX Mus sp.  
XX WO200259381-A2.  
XX 01-AUG-2002.  
XX 07-JAN-2002; 2002WO-US000473.  
XX 06-JAN-2001; 2001US-0260080P.  
XX (GHEO) GEN HOSPITAL CORP.  
XX Slaugenhaupt S, Gusekella JF;  
XX WPI; 2002-674806/72.  
XX New IKBKAP genes with mutations, useful for identifying a subject with  
PT familial dysautonomia (FD), or for rapid carrier screening in the  
PT Ashkenazi Jewish population, e.g. screening presymptomatic homozygotes or  
PT prenatal diagnosis.  
XX Disclosure; Fig 11; 109pp; English.  
XX The present invention relates to methods and compositions useful for  
CC detecting mutations which cause Familial Dysautonomia (FD, Riley-Day  
CC syndrome, Hereditary Sensory and Autonomic Neuropathy Type III) [OMIM  
CC 223900]. It was found that mutations in the IKBKAP gene (see ABQ80565)  
CC are associated with FD. The mutation associated with the major haplotype  
CC of FD, FDI mutation, is a base pair (bp) mutation, where the thymine  
CC nucleotide located at bp 6 of intron 20 in the IKBKAP gene is replaced  
CC with a cytosine. This results in skipping of exon 20 in the mRNA from FD  
CC patients, although they continue to express varying levels of wild-type  
CC message in a tissue-specific manner. The mutation associated with the  
CC minor haplotype, FD2 mutation, is a bp mutation, where the guanine  
CC nucleotide at bp 2397 (bp 73 of exon 19) is replaced with a cytosine.  
CC This bp mutation causes an arginine to proline missense mutation (R696P)  
CC in the IKBKAP protein, which is predicted to disrupt a potential  
CC phosphorylation site. The IKBKAP nucleic acid sequences are useful for  
CC identifying a subject with FD and for rapid carrier screening. The IKBKAP  
CC gene maps to chromosome 9q31. A mouse model of FD was created in an  
CC example from the invention. Expression of murine Ikbk was examined  
CC using both mouse embryo and adult mouse multiple tissue Northern blots.  
CC The blots were probed with a 1045bp PCR fragment that contains exons 2  
CC through 11, which was generated using PCR primers ABQ80563-ABQ80564.  
CC ABQ99662-ABQ99733 are the murine Ikbk exon and intron boundaries  
XX

SQ Sequence 17 BP; 3 A; 5 C; 2 G; 7 T; 0 U; 0 Other;  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 531 CTGGAAGCAGCAATG 545  
DB 15 CTGGAAGCAGCAATG 1  
RESULT 187  
ABL31275  
ID ABL31275 standard; DNA; 17 BP.  
XX ABL31275;  
XX 21-MAR-2002 (first entry)  
DT Human HLA genotyping oligonucleotide SEQ ID NO 764.  
DE Human; human leukocyte antigen; HLA; genotype; polymorphism;  
KW immunogenetic; transplantation; genetic disease; ss.  
XX Homo sapiens.  
XX WO200192572-A1.  
XX 06-DEC-2001.  
XX 01-JUN-2001; 2001WO-JP004662.  
XX 01-JUN-2000; 2000JP-00164798.  
XX (NIN) NISSHINO IND INC.  
XX (SYST-) SYSTEM RES INC.  
XX Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;  
XX WPI; 2002-122074/16.  
XX Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of  
PT individuals e.g. by determining immunogenetic differences when  
PT transplanting between them.  
XX Claim 10; Page 238; 345pp; Japanese.  
XX The invention relates to a typing kit for judging human leukocyte antigen  
CC (HLA) genotype of a sample by hybridising a substrate on which 10-24 base  
CC oligonucleotides (ABL30512-ABL31809) originating in the sequences of  
CC genes e.g. belonging to HLA class I antigens on human genome and  
CC containing gene polymorphisms as alloantigens have been immobilised as  
CC primers for amplification of cleaved nucleic acids relating to gene  
CC polymorphisms. The method is useful for judging HLA genotypes of  
CC individuals by determining immunogenetic differences before transplanting  
CC between them, providing genetic information e.g. of bone marrow, kidney, liver,  
CC organ and tissue for transplantation e.g. of pancreas and cornea, susceptibility  
CC pancreas, Langerhans islet in pancreas and cornea, susceptibility  
CC diagnosis of genetic diseases and identifying individuals  
XX SQ Sequence 17 BP; 1 A; 5 C; 10 G; 1 T; 0 U; 0 Other;  
Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 90;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 78 GGAGCGCGGCGCGG 92  
DB 2 GGAGCGCGGCGCGG 16  
RESULT 188  
ACC52440



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ID  ACC52440 standard; DNA; 17 BP.
XX  AC
XX  ACC52440;
XX  AC
XX  27-JUN-2003 (first entry)
DT  27-JUN-2003 (first entry)
XX  27-JUN-2003 (first entry)
XX  Human tumour suppressor sequence #1207.
DE  ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
XX  tumour regression; apoptosis; virus resistance; diagnosis;
XX  cellular degeneration.
XX  Homo sapiens.
XX  OS
XX  FR2826373-A1.
XX  PN
XX  27-DEC-2002.
XX  PD
XX  20-JUN-2001; 2001FR-00008139.
XX  PF
XX  20-JUN-2001; 2001FR-00008139.
XX  PR
XX  (MOLE-) MOLECULAR ENGINES LAB SA.
XX  PA
XX  Tuijnder M, Telerman A, Amson R;
XX  PI
XX  WPI; 2003-250498/25.
XX  DR
XX  New nucleic acid sequences associated with tumor suppression, regression,
XX  apoptosis or virus resistance are useful to diagnose and treat viral
XX  disease, development of tumor cells and cell degeneration.
XX  PT
XX  Claim 1; Page 319; 798pp; French.
XX  PS
XX  This sequence represents an isolated nucleic acid sequence associated
XX  with tumour suppression or regression, apoptosis or virus resistance. The
XX  invention relates to these sequences or sequences having at least 80%
XX  identity to them, and polypeptides encoded by the sequences or
XX  polypeptides having 80% identity to the polypeptide sequences. The
XX  invention is used to diagnose or treat viral disease or disease
XX  characterized by development of tumour cells or cellular degeneration
XX  CC
XX  Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 U; 0 Other;
SQ  Query Match 1.3%; Score 13.4; DB 1; Length 17;
    Best Local Similarity 93.3%; Pred. No. 90;
    Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY  639 TCCAGGAGAGGTCCA 653
Db  ||||| ||||| |||||
    3 TCCAGTAGAGGTCCA 17

RESULT 189
ABQ77407
ID  ABQ77407 standard; DNA; 17 BP.
XX  AC
XX  ABQ77407;
XX  AC
XX  10-MAY-2003 (first entry)
XX  DT
XX  Human vascular disease-associated primer SEQ ID 15.
XX  DE
XX  Human, THBS2; vascular disease; cardiant; antiarteriosclerotic; stroke;
XX  cerebroprotective; gene therapy; coronary artery disease; ischaemia;
XX  myocardial infarction; peripheral vascular disease; pulmonary embolism;
XX  venous thromboembolism; forensic; paternity testing; primer; ss.
XX  KW
XX  Homo sapiens.
XX  OS
XX  WO2003016494-A2.
XX  PN
XX  27-FEB-2003.
XX  PD
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XX  16-AUG-2002; 2002WO-US026343.
XX  PF
XX  16-AUG-2001; 2001US-0313097P.
XX  PR
XX  05-OCT-2001; 2001US-0327485P.
XX  PR
XX  14-DEC-2001; 2001US-00020141.
XX  PR
XX  (VITI-) VITIVITY INC.
XX  PA
XX  McCarthy J, Ahleson A;
XX  PI
XX  WPI; 2003-300617/29.
XX  DR
XX  Identifying a subject as a candidate for a particular course of therapy
XX  to treat a vascular disease or disorder, e.g. stroke, myocardial
XX  infarction or ischemia by determining the identity of the nucleotide
XX  present at specific positions.
XX  PT
XX  Claim 64; Page 567; 568pp; English.
XX  PS
XX  This invention describes a novel method for identifying a subject as a
XX  candidate for a particular course of therapy to treat a vascular disease
XX  or disorder. The method comprises determining the identity of the
XX  nucleotide present at specific positions, or their complements, and
XX  identifying the subject as a candidate for a particular clinical course
XX  of therapy based on the identity of the nucleotide present in that
XX  specific position. The method can be used for identifying a subject who
XX  is a candidate for further diagnostic evaluation of a vascular disease or
XX  disorder and selecting a clinical course of therapy. The products of the
XX  invention have cardiant, antiarteriosclerotic and cerebroprotective
XX  activity and can be used for gene therapy. The methods disclosed are
XX  useful for treating a vascular disease, e.g. atherosclerosis, coronary
XX  artery disease, myocardial infarction, ischaemia, stroke, peripheral
XX  vascular diseases, venous thromboembolism and pulmonary embolism. The DNA
XX  sequences are useful as fingerprint for detecting different individuals
XX  within the same species applicable in forensic studies and paternity
XX  testing. This sequence represents a primer used to illustrate the method
XX  of the invention
XX  CC
XX  Sequence 17 BP; 3 A; 4 C; 9 G; 1 T; 0 U; 0 Other;
SQ  Query Match 1.3%; Score 13.4; DB 1; Length 17;
    Best Local Similarity 93.3%; Pred. No. 90;
    Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY  3 GAGCCCTGAGGCAGG 17
Db  ||||| ||||| |||||
    3 GAGCCGCGAGGCAGG 17

RESULT 190
ADB04942
ID  ADB04942 standard; DNA; 17 BP.
XX  AC
XX  ADB04942;
XX  AC
XX  20-NOV-2003 (first entry)
XX  DT
XX  Human MD212 scanning oligonucleotide SEQ ID 5928.
XX  DE
XX  Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX  zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX  chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX  developmental disorder; ss.
XX  KW
XX  Homo sapiens.
XX  OS
XX  BP1281758-A2.
XX  PN
XX  05-FEB-2003.
XX  PD
XX  30-JUL-2002; 2002EP-00016874.
XX  PF
XX  30-JUL-2002; 2002EP-00016874.
XX  PD
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PR 02-AUG-2001; 2001US-00922181.
XX (AEOM-) AEOMICA INC.
PA Shannon M, Gu Y, Nguyen C;
XX WPI; 2003-423107/40.
XX
XX New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 5928; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 4 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
SQ
Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 639 TCAGGAGAGGTCCTCA 653
DB 3 TCAGGAGAGGGCCA 17
RESULT 191
ADB04945
ID ADB04945 standard; DNA; 17 BP.
AC ADB04945;
XX
XX 20-NOV-2003 (first entry)
DT Human MD212 scanning oligonucleotide SEQ ID 5931.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
KW developmental disorder; ss.
XX Homo sapiens.
XX EP1281758-A2.
XX
XX 05-FEB-2003.
XX
XX 30-JUL-2002; 2002EP-00016874.
XX
XX 02-AUG-2001; 2001US-00922181.
XX (AEOM-) AEOMICA INC.
XX Shannon M, Gu Y, Nguyen C;
XX WPI; 2003-423107/40.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
```

```
PT New zinc finger-containing proteins and nucleic acids, useful in
PT manufacturing a medicament for treating or preventing a disorder
PT associated with decreased or increased expression or activity of MD23,
PT MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 5931; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
CC or in manufacturing a medicament for treating or preventing a disorder
CC associated with decreased or increased expression or activity of MD23,
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
CC acids and proteins are also useful for diagnosing or monitoring a disease
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
CC acids can also be used as probes to detect and characterize gross
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
CC useful in constructing microarrays for measuring gene expression. The
CC proteins are useful as therapeutic agents for gene therapy or as
CC vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 4 A; 5 C; 7 G; 1 T; 0 U; 0 Other;
SQ
Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 640 CCAGGAGAGGTCCAG 654
DB 1 CCAGGAGAGGGCCAG 15
RESULT 192
ABZ64551/C
ID ABZ64551 standard; RNA; 17 BP.
XX
XX ABZ64551;
XX
XX 21-MAR-2003 (first entry)
DT Human HER2 DNAzyme substrate #8.
XX
XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX Homo sapiens.
XX WO200297114-A2.
XX
XX 05-DEC-2002.
XX
XX 29-MAY-2002; 2002WO-US016840.
XX
XX 29-MAY-2001; 2001US-0294140P.
XX
XX 06-JUN-2001; 2001US-0296249P.
XX
XX 10-SEP-2001; 2001US-0318471P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Mcswiggen J;
XX
XX WPI; 2003-140484/13.
XX
XX Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX Claim 4; Page 133; 185pp; English.
XX
XX The invention relates to a novel short interfering RNA (siRNA) nucleic
```

CC acid molecule or an enzymatic nucleic acid molecule, that modulates  
 CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,  
 CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic  
 CC acid molecule of the invention has cytostatic, anti-HIV, and anti-  
 CC rheumatic activity. The nucleic acid molecules are useful for reducing  
 CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are  
 CC also useful for treating breast, ovarian, colorectal, lung, prostate,  
 CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences  
 CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,  
 CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human  
 CC ribozymes of the invention  
 XX  
 SQ Sequence 17 BP; 1 A; 9 C; 7 G; 0 T; 0 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 49 GCGCGCGCGGTGCC 63  
 DB 16 GGGCGCGCGGTGCC 2  
 RESULT 193  
 AC62936  
 ID ACD62936 standard; RNA; 17 BP.  
 XX  
 AC ACD62936;  
 XX  
 DT 24-SEP-2003 (first entry)  
 XX  
 DE HCV minus strand DNazyme substrate sequence #799.  
 XX  
 KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;  
 KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.  
 XX  
 OS Hepatitis C virus.  
 XX  
 PN WO200281494-A1.  
 XX  
 PD 17-OCT-2002.  
 XX  
 PF 26-MAR-2002; 2002WO-US0009187.  
 XX  
 PR 26-MAR-2001; 2001US-00817879.  
 PR 08-JUN-2001; 2001US-00877478.  
 PR 08-JUN-2001; 2001US-0296876P.  
 PR 24-OCT-2001; 2001US-0335059P.  
 PR 05-DEC-2001; 2001US-0337055P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MACE/) MACEJAK D.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (MORR/) MORRISSEY D.  
 PA (LEEP/) LEE P.  
 PA (DRAP/) DRAPER K.  
 PA (ROBE/) ROBERTS E.  
 XX  
 PI Blatt L, Macejak D, Mcswiggen J, Morrissey J, Morrissey D, Pavco P, Lee P;  
 PI Draper K, Roberts E;  
 XX  
 DR WPI; 2003-229207/22.  
 XX  
 PT Novel compound useful for treating cirrhosis, liver failure,  
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus

PT infection.  
 XX  
 PS Claim 1; Page 289; 387pp; English.  
 XX  
 CC The present invention relates to nucleic acid molecules which modulate  
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,  
 CC inozymes, zinzymes, ambezymes, and G-cleaver ribozymes. Also disclosed  
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
 CC as oligonucleotides that specifically bind the enhancer I region of HBV  
 CC DNA. The nucleic acids may be used to modulate the expression of HBV  
 CC genes and HBV viral replication. Also disclosed is a method for screening  
 CC compounds and/or potential therapies directed against HBV, and compounds  
 CC that modulate the expression and/or replication of HCV. The compounds and  
 CC methods of the invention are useful for the treatment of degenerative and  
 CC disease states related to HBV and HCV infection, replication of degenerative and  
 CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNazyme or minus strand DNazyme sequences disclosed in the present  
 CC invention  
 XX  
 SQ Sequence 17 BP; 4 A; 10 C; 3 G; 0 T; 0 U; 0 Other;  
 Query Match 1.3%; Score 13.4; DB 1; Length 17;  
 Best Local Similarity 93.3%; Pred. No. 90;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 795 CACACACCCCGAAG 809  
 DB 3 CACACACCCCGACG 17  
 RESULT 194  
 AC62937/c  
 ID ACD52378 standard; RNA; 17 BP.  
 XX  
 AC ACD52378;  
 XX  
 DT 24-SEP-2003 (first entry)  
 XX  
 DE HBV inozyme substrate sequence #355.  
 XX  
 KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;  
 KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.  
 XX  
 OS Hepatitis B virus.  
 XX  
 PN WO200281494-A1.  
 XX  
 PD 17-OCT-2002.  
 XX  
 PF 26-MAR-2002; 2002WO-US0009187.  
 XX  
 PR 26-MAR-2001; 2001US-00817879.  
 PR 08-JUN-2001; 2001US-00877478.  
 PR 08-JUN-2001; 2001US-0296876P.  
 PR 24-OCT-2001; 2001US-0335059P.  
 PR 05-DEC-2001; 2001US-0337055P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MACE/) MACEJAK D.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (MORR/) MORRISSEY D.  
 PA (PAVC/) PAVCO P.



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PN WO2003025176-A2.
XX
XX 27-MAR-2003.
XX
XX 17-SEP-2002; 2002WO-IB004210.
XX
XX 17-SEP-2001; 2001FR-00011979.
XX
XX (MOLE-) MOLECULAR ENGINES LAB.
XX
XX Telerman A, Amson R, Tuijnder M;
XX
XX WPI; 2003-333167/31.
XX
XX New isolated nucleic acid, useful for treating viral diseases associated
XX with tumors and cell degeneration, also related polypeptides, antibodies
XX and transfected cells.
XX
XX Disclosure; Page 575; 738pp; French.
XX
XX The present invention relates to murine oligonucleotides (ACC62754-
XX ACC65806), which are associated with tumour suppression, tumour
XX reversion, apoptosis and virus resistance. The oligonucleotides are
XX useful as (1) as probes and primers for detecting, identifying,
XX quantifying and/or amplifying nucleic acid, e.g. as one component of a
XX gene chip; in vitro as (anti)sense reagents; and (2) for production of
XX recombinant polypeptides. The oligonucleotides are useful for preparation
XX of pharmaceuticals for prevention and/or treatment of viral diseases that
XX are characterised by development of tumours or cell degeneration,
XX specifically cancer but also Alzheimer's disease and schizophrenia
XX
XX Sequence 17 BP; 5 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
XX
Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 741 TCCAGGAGTAAAGGAG 755
Db 3 TCCAGGAGTCAAGGAG 17

RESULT 197
ABZ88038/c
ID ABZ88038 standard; DNA; 20 BP.
XX
XX AC ABZ88038;
XX
XX 17-OCT-2003 (first entry)
XX
XX Human oligonucleotide sequence.
XX
XX Human; antisense; lung dysfunction; nasal airway dysfunction;
XX antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
XX antisthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
XX antisense gene therapy; respiratory; lung; adenosine sensitivity;
XX adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
XX lung inflammation; respiratory disease; ds.
XX
XX Homo sapiens.
XX
XX WO200285308-A2.
XX
XX 31-OCT-2002.
XX
XX 23-APR-2002; 2002WO-US013135.
XX
XX 24-APR-2001; 2001US-0286137P.
XX
XX (EPIG-) EPIGENESIS PHARM INC.
XX
XX Nyce JW, Li Y, Sandrasegna A, Katz E, Pabalan J, Aguilar D;
XX Miller S, Tang L, Shahabuddin S;

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XX
XX WPI; 2003-229219/22.
XX
XX Pharmaceutical composition for treating ailments associated with impaired
XX respiration, has oligo(s) antisense to specific gene(s) or its
XX corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX ubiquinone.
XX
XX Disclosure; SEQ ID NO 3280; 872pp; English.
XX
XX The invention relates to a novel pharmaceutical composition, which has a
XX first active agent comprising an oligonucleotide antisense to the
XX initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX junctions of genes encoding a polypeptide associated with lung and/or
XX nasal airway dysfunction and a second active agent comprising an
XX antiinflammatory steroid and ubiquinone. A composition of the invention
XX has antiinflammatory, antiallergic, antisthmatic, hypotensive,
XX immunosuppressive, and cytostatic activity. The composition may have a
XX use in antisense gene therapy. The composition is useful for treating or
XX preventing a respiratory, lung or malignant disease or condition, also
XX for enhancing the prophylactic or therapeutic respiratory effect of an
XX antiinflammatory steroid in a subject, for reducing or depleting levels
XX of, or reducing sensitivity to adenosine, reducing levels of adenosine or
XX receptor, producing bronchodilation, increasing levels of ubiquinone or
XX lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX lung inflammation, lung allergies, or a respiratory disease or condition.
XX Note: The sequence data for this patent is not represented in the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 20 BP; 3 A; 7 C; 9 G; 1 T; 0 U; 0 Other;
XX
Query Match 1.3%; Score 13.2; DB 1; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 407 CTGCAGCGGCCCGCCG 424
Db 19 CTGCAGCTGCTGCCGCG 2

RESULT 198
ABV90095
ID ABV90095 standard; DNA; 17 BP.
XX
XX AC ABV90095;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human POSHL1 scanning oligonucleotide SEQ ID NO 808.
XX
XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
XX Rho GTPase; signal transduction; gene expression; cancer; vaccine;
XX gene therapy; transgenic; ss.
XX
XX Homo sapiens.
XX
XX EP1239051-A2.
XX
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-00001165.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX
XX 30-JAN-2001; 2001WO-US000664.
XX
XX 30-JAN-2001; 2001WO-US000665.
XX
XX 30-JAN-2001; 2001WO-US000666.
XX
XX 30-JAN-2001; 2001WO-US000667.
XX
XX 30-JAN-2001; 2001WO-US000668.
XX
XX 30-JAN-2001; 2001WO-US000669.
XX
XX 30-JAN-2001; 2001US-00864761.
XX
XX 23-MAY-2001; 2001US-00864761.

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PR 10-OCT-2001; 2001US-0328205P.
XX (AEOM-) AEOMICA INC.
XX Shannon M;
XX WPI; 2002-684061/74.
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX
XX Example 2; SEQ ID NO 808; 60pp + Sequence Listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
XX protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
XX acids (SI, ABB83999), a sequence having 65% sequence identity to (SI),
XX (SI) having 95% deviations, especially conservative substitutions or a
XX fragment of the sequences comprising at least 8 contiguous amino acids.
XX Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
XX adaptor protein that interacts with Rho family small GTPases as well as
XX downstream components of the signal transduction pathway. (I) is useful
XX for identifying a specific binding partner. (I) and nucleic acids (II)
XX encoding (I) are useful for diagnosing, monitoring disease and treating
XX caused by altered expression of human POSHL1 including diagnosing and
XX treating cancer, they useful in the development of vaccines and (II) is
XX useful in gene therapy. (II) is useful for constructing microarrays which
XX are useful for measuring and for surveying gene expression and creating
XX transgenic non-human animals capable of producing the proteins. The
XX present sequence is that of a scanning oligonucleotide useful in examples
XX of the invention. Note: The present sequence did not form part of the
XX printed specification, but is based on sequence information supplied to
XX Derwent by the European Patent Office
XX
SQ Sequence 17 BP; 2 A; 9 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 409 GCAGCGGCCCCCGCCG 424
Db 1 GCAGCTGCCCGCCG 16

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Search completed: June 28, 2004, 08:08:31  
Job time : 4 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: June 28, 2004, 08:13:57 ; Search time 2 Seconds  
(without alignments)  
3.071 Million cell updates/sec

Title: US-10-069-079-1  
Perfect score: 1000  
Sequence: 1 ccagccctgagcagcggg.....ctgcagctgtgcacatggaa 1000

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 177 seqs, 3071 residues

Total number of hits satisfying chosen parameters: 354

Minimum DB seq length: 8

Maximum DB seq length: 80

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 185 summaries

Database : rni1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	26	2.6	26	1	US-09-359-756-4
2	23	2.3	23	1	US-09-359-756-2
3	21	2.1	21	1	US-09-359-756-3
4	20	2.0	20	1	US-09-359-756-8
5	20	2.0	20	1	US-09-359-756-9
6	20	2.0	20	1	US-09-359-756-10
7	20	2.0	20	1	US-09-359-756-11
8	20	2.0	20	1	US-09-359-756-12
9	20	2.0	20	1	US-09-359-756-13
10	20	2.0	20	1	US-09-359-756-14
11	17.8	1.8	21	1	US-09-423-890-20
12	16.4	1.6	20	1	US-08-317-4508-2
13	16.4	1.6	20	1	US-08-914-961-2
14	16.4	1.6	20	1	US-08-800-593-2
15	16	1.6	18	1	US-08-466-860-54
16	16	1.6	18	1	US-08-472-0408-54
17	16	1.6	18	1	US-08-276-776-54
18	16	1.6	18	1	US-08-471-209-54
19	16	1.6	18	1	US-08-182-967-4
20	15.8	1.6	19	1	US-07-936-110-2
21	15.8	1.6	19	1	US-08-777-918-2
22	15.8	1.6	19	1	US-09-422-978-5276
23	15.8	1.6	20	1	US-08-465-485A-28
24	15.8	1.6	20	1	US-09-080-286-28
25	15.8	1.6	20	1	US-09-517-584A-13
26	15.8	1.6	20	1	US-09-030-701-65
27	15.8	1.6	20	1	US-09-476-256-7
28	15.8	1.6	20	1	US-09-476-256-12
29	15.8	1.6	20	1	US-09-082-649B-57
30	15.8	1.6	20	1	US-09-724-426-28
31	15.8	1.6	20	1	US-09-422-978-9876
32	15.8	1.6	21	1	US-08-863-639A-52
33	15.8	1.6	21	1	US-08-863-639A-55

Sequence 56, Appl  
Sequence 67, Appl  
Sequence 68, Appl  
Sequence 71, Appl  
Sequence 11, Appl  
Sequence 56, Appl  
Sequence 6333, Ap  
Sequence 15, Appl  
Sequence 15, Appl  
Sequence 439, App  
Sequence 95, Appl  
Sequence 3, Appl  
Sequence 4, Appl  
Sequence 4, Appl  
Sequence 21, Appl  
Sequence 21, Appl  
Sequence 45, Appl  
Sequence 4210, Ap  
Sequence 43, Appl  
Sequence 99, Appl  
Sequence 4308, Ap  
Sequence 801, App  
Sequence 565, App  
Sequence 581, App  
Sequence 2075, Ap  
Sequence 564, App  
Sequence 580, App  
Sequence 6303, Ap  
Sequence 8005, Ap  
Sequence 505, App  
Sequence 21, Appl  
Sequence 14, Appl  
Sequence 10, Appl  
Sequence 13, Appl  
Sequence 13, Appl  
Sequence 34, Appl  
Sequence 44, Appl  
Sequence 45, Appl  
Sequence 16, Appl  
Sequence 13, Appl  
Sequence 14, Appl  
Sequence 16, Appl  
Sequence 9, Appl  
Sequence 321, App  
Sequence 321, App  
Sequence 321, App  
Sequence 13, Appl  
Sequence 4, Appl  
Sequence 1, Appl  
Sequence 3, Appl  
Sequence 5503, Ap  
Sequence 311, App  
Sequence 2497, Ap  
Sequence 2498, Ap  
Sequence 2499, Ap  
Sequence 8123, Ap  
Sequence 8124, Ap  
Sequence 8125, Ap  
Sequence 8640, Ap  
Sequence 8641, Ap  
Sequence 8642, Ap  
Sequence 8643, Ap  
Sequence 8644, Ap  
Sequence 164, App  
Sequence 161, App  
Sequence 5828, Ap  
Sequence 1, Appl

c 107	12.8	1.3	17	1	US-08-250-740-11	Sequence 11, Appl	c 180	12.4	1.2	16	1	US-08-050-073-235	Sequence 235, App
c 108	12.8	1.3	17	1	US-07-695-472B-21	Sequence 21, Appl	c 181	12.4	1.2	16	1	US-08-050-073-250	Sequence 250, App
c 109	12.8	1.3	17	1	US-08-584-040-1925	Sequence 1925, Ap	c 182	12.4	1.2	16	1	US-08-373-124A-135	Sequence 135, App
c 110	12.8	1.3	17	1	US-08-584-040-4327	Sequence 4327, Ap	c 183	12.4	1.2	16	1	US-08-435-628-135	Sequence 135, App
c 111	12.8	1.3	17	1	US-08-584-040-5867	Sequence 5867, Ap	c 184	12.4	1.2	16	1	US-09-549-853-34	Sequence 34, Appl
c 112	12.8	1.3	17	1	US-08-584-040-7609	Sequence 7609, Ap	c 185	12.4	1.2	16	1	US-09-479-005A-2	Sequence 2, Appl1
c 113	12.8	1.3	17	1	US-08-679-645-210	Sequence 210, App							
c 114	12.8	1.3	17	1	US-08-679-645-212	Sequence 212, App							
c 115	12.8	1.3	17	1	US-08-679-645-803	Sequence 803, App							
c 116	12.8	1.3	17	1	US-09-343-898-1	Sequence 1, Appl1							
c 117	12.8	1.3	17	1	US-09-673-809-97	Sequence 97, Appl							
c 118	12.8	1.3	17	1	US-09-673-809-97	Sequence 97, Appl							
c 119	12.8	1.3	17	1	US-09-474-432B-736	Sequence 736, App							
c 120	12.8	1.3	17	1	US-09-474-432B-789	Sequence 789, App							
c 121	12.8	1.3	17	1	US-09-106-375-21	Sequence 21, Appl							
c 122	12.8	1.3	17	1	US-09-371-772B-470	Sequence 470, App							
c 123	12.8	1.3	17	1	US-09-371-772B-2094	Sequence 2094, Ap							
c 124	12.8	1.3	17	1	US-09-371-772B-2720	Sequence 2720, Ap							
c 125	12.8	1.3	17	1	US-09-371-772B-4761	Sequence 4761, Ap							
c 126	12.8	1.3	17	1	US-09-371-772B-6336	Sequence 6336, Ap							
c 127	12.8	1.3	17	1	US-09-371-772B-6337	Sequence 6337, Ap							
c 128	12.8	1.3	17	1	US-08-325-955-1	Sequence 1, Appl1							
c 129	12.8	1.3	17	1	US-09-476-387-735	Sequence 735, App							
c 130	12.8	1.3	17	1	US-09-476-387-788	Sequence 788, App							
c 131	12.8	1.3	17	1	US-09-827-998-76	Sequence 76, Appl							
c 132	12.8	1.3	17	1	US-09-827-998-77	Sequence 77, Appl							
c 133	12.8	1.3	17	1	US-09-827-998-136	Sequence 136, App							
c 134	12.8	1.3	17	1	US-09-827-998-137	Sequence 137, App							
c 135	12.8	1.3	17	1	US-09-866-108A-1547	Sequence 1547, Ap							
c 136	12.8	1.3	17	1	US-09-866-108A-1548	Sequence 1548, Ap							
c 137	12.8	1.3	17	1	US-09-866-108A-6302	Sequence 6302, Ap							
c 138	12.8	1.3	17	1	US-09-866-108A-6304	Sequence 6304, Ap							
c 139	12.8	1.3	17	1	US-09-866-108A-6376	Sequence 6376, Ap							
c 140	12.8	1.3	17	1	US-09-866-108A-6377	Sequence 6377, Ap							
c 141	12.8	1.3	17	1	US-09-866-108A-8004	Sequence 8004, Ap							
c 142	12.8	1.3	17	1	US-09-866-108A-8006	Sequence 8006, Ap							
c 143	12.8	1.3	17	1	US-09-866-108A-9603	Sequence 9603, Ap							
c 144	12.8	1.3	17	1	US-09-866-108A-9604	Sequence 9604, Ap							
c 145	12.8	1.3	17	1	US-09-866-108A-9943	Sequence 9943, Ap							
c 146	12.8	1.3	17	1	US-09-866-108A-9944	Sequence 9944, Ap							
c 147	12.8	1.3	20	1	US-08-465-485A-28	Sequence 28, Appl							
c 148	12.8	1.3	20	1	US-09-080-285-28	Sequence 28, Appl							
c 149	12.8	1.3	20	1	US-09-724-426-28	Sequence 28, Appl							
c 150	12.6	1.3	20	1	US-08-914-961-2	Sequence 2, Appl							
c 151	12.4	1.2	14	1	US-08-244-188-1	Sequence 1, Appl							
c 152	12.4	1.2	14	1	US-08-244-188-2	Sequence 2, Appl							
c 153	12.4	1.2	14	1	US-08-393-734-6	Sequence 6, Appl							
c 154	12.4	1.2	14	1	US-08-836-022A-6	Sequence 6, Appl							
c 155	12.4	1.2	14	1	US-08-894-489-6	Sequence 6, Appl							
c 156	12.4	1.2	14	1	US-09-427-048A-6	Sequence 6, Appl							
c 157	12.4	1.2	14	1	US-08-872-056-8	Sequence 8, Appl							
c 158	12.4	1.2	14	1	US-09-529-157-8	Sequence 8, Appl							
c 159	12.4	1.2	15	1	US-07-791-213D-42	Sequence 42, Appl							
c 160	12.4	1.2	15	1	US-08-050-073-201	Sequence 201, App							
c 161	12.4	1.2	15	1	US-08-050-073-202	Sequence 202, App							
c 162	12.4	1.2	15	1	US-08-050-073-301	Sequence 301, App							
c 163	12.4	1.2	15	1	US-08-050-073-302	Sequence 302, App							
c 164	12.4	1.2	15	1	US-08-363-240A-148	Sequence 148, App							
c 165	12.4	1.2	15	1	US-08-363-240A-149	Sequence 149, App							
c 166	12.4	1.2	15	1	US-08-293-150A-42	Sequence 42, Appl							
c 167	12.4	1.2	15	1	US-08-292-620A-56	Sequence 56, Appl							
c 168	12.4	1.2	15	1	US-08-292-620A-597	Sequence 597, App							
c 169	12.4	1.2	15	1	US-08-585-684B-2297	Sequence 2297, Ap							
c 170	12.4	1.2	15	1	US-09-071-845-56	Sequence 56, Appl							
c 171	12.4	1.2	15	1	US-09-071-845-597	Sequence 597, App							
c 172	12.4	1.2	15	1	US-09-038-073-2297	Sequence 2297, Ap							
c 173	12.4	1.2	15	1	US-09-056-995-22	Sequence 22, Appl							
c 174	12.4	1.2	15	1	US-09-056-995-23	Sequence 23, Appl							
c 175	12.4	1.2	15	1	US-09-180-437-175	Sequence 175, App							
c 176	12.4	1.2	15	1	US-09-549-853-38	Sequence 38, Appl							
c 177	12.4	1.2	15	1	US-09-753-362-14	Sequence 14, Appl							
c 178	12.4	1.2	15	1	US-09-475-947A-322	Sequence 322, App							
c 179	12.4	1.2	15	1	US-09-953-242-14	Sequence 14, Appl							

# ALIGNMENTS

## RESULT 1

US-09-359-756-4  
 ; Sequence 4, Application US/09359756  
 ; Patent No. 6168950  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brett P. Monia  
 ; APPLICANT: William Gaarde  
 ; APPLICANT: Donna T. Ward  
 ; APPLICANT: Lex M. Cowser  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION  
 ; FILE REFERENCE: RIS-0077  
 ; CURRENT APPLICATION NUMBER: US/09/359,756  
 ; CURRENT FILING DATE: 1999-07-23  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 4  
 ; LENGTH: 26  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: PCR Probe  
 US-09-359-756-4

Query Match 2.6%; Score 26; DB 1; Length 26;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 478 CGTCCAGAGGACCAATGATCAGGGA 503  
 |||||  
 Db 1 CGTCCAGAGGACCAATGATCAGGGA 26

## RESULT 2

US-09-359-756-2  
 ; Sequence 2, Application US/09359756  
 ; Patent No. 6168950  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brett P. Monia  
 ; APPLICANT: William Gaarde  
 ; APPLICANT: Donna T. Ward  
 ; APPLICANT: Lex M. Cowser  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION  
 ; FILE REFERENCE: RIS-0077  
 ; CURRENT APPLICATION NUMBER: US/09/359,756  
 ; CURRENT FILING DATE: 1999-07-23  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 2  
 ; LENGTH: 23  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: PCR Primer  
 US-09-359-756-2

Query Match 2.3%; Score 23; DB 1; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 2.7;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 445 GAAACTCTCAAGGGTTGCACAA 467  
 |||||  
 Db 1 GAAACTCTCAAGGGTTGCACAA 23



```
RESULT 3
US-09-359-756-3/c
; Sequence 3, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 3
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-09-359-756-3
Query Match      2.1%; Score 21; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 509 TGAAGGCAACTGTATGCCAG 529
Db 21 TGAAGGCAACTGTATGCCAG 1

RESULT 4
US-09-359-756-8/c
; Sequence 8, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 8
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-359-756-8
Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 GCAGCGCGCGCGGAGGAGC 32
Db 20 GCAGCGCGCGCGGAGGAGC 1

RESULT 5
US-09-359-756-9/c
; Sequence 9, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
US-09-359-756-9
Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 44 GCAGCGCGCGCGGCTGCC 63
Db 20 GCAGCGCGCGCGGCTGCC 1

RESULT 6
US-09-359-756-10/c
; Sequence 10, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-359-756-10
Query Match      2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 94 GCAGCGCGCGCGGACTG 113
Db 20 GCAGCGCGCGCGGACTG 1

RESULT 7
US-09-359-756-11/c
; Sequence 11, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-359-756-11
```

```
Query Match          2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 148 GAGCTGGACGAGTGGCTGA 167
Db 20 GAGCTGGACGAGTGGCTGA 1

RESULT 8
US-09-359-756-12/c
; Sequence 12, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-359-756-14

Query Match          2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 444 AGAACTCTCAAAGGTTGC 463
Db 20 AGAACTCTCAAAGGTTGC 1

RESULT 11
US-09-423-890-20
; Sequence 20, Application US/09423890
; Patent No. 6312934
; GENERAL INFORMATION:
; APPLICANT: CADUS PHARMACEUTICAL CORPORATION
; TITLE OF INVENTION: HUMAN MEK1 PROTEIN AND NUCLEIC ACID MOLECULES
; FILE REFERENCE: CPI-085CPPC
; CURRENT APPLICATION NUMBER: US/09/423,890
; CURRENT FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: USSN 60/078,153
; PRIOR FILING DATE: 1998-03-16
; PRIOR APPLICATION NUMBER: USSN 60/099,165
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic construct
US-09-423-890-20

Query Match          1.8%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 20;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 527 CAGCCTGGAGCAGCAATGCT 547
Db 1 CGGCCTGGAAGCAGCAATGCT 21

RESULT 12
US-08-317-450B-2
; Sequence 2, Application US/08317450B
; Patent No. 5660982
; GENERAL INFORMATION:
; APPLICANT: Tryggvason, Karl
; APPLICANT: Kallunki, Pekka
; APPLICANT: Pyke, Charles
; TITLE OF INVENTION: Laminin Chains: Diagnostic and
; OTHER INFORMATION: Therapeutic Use

Query Match          2.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 309 CCACCTTACCGAGTCGGTGG 328
Db 20 CCACCTTACCGAGTCGGTGG 1

RESULT 10
US-09-359-756-14/c
```



```
;
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OLIGOMER PRIMER"
US-08-800-593-2

Query Match 1.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 31;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 618 GAATCACTAGCAGCTCA 635
Db 1 GAATCACTAGCAGCTCA 18

RESULT 15
US-08-466-860-54/c
; Sequence 54, Application US/08466860
; Patent No. 5985552
; GENERAL INFORMATION:
; APPLICANT: HOWELL, MARK D.
; APPLICANT: BROSTOFF, STEVEN W.
; APPLICANT: CARLO, DENNIS J.
; TITLE OF INVENTION: VACCINATION AND METHODS AGAINST DISEASES
; TITLE OF INVENTION: RESULTING FROM PATHOGENIC RESPONSES BY SPECIFIC T CELL
; TITLE OF INVENTION: POPULATIONS
; NUMBER OF SEQUENCES: 75
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,860
; FILING DATE: 24-DEC-1991
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-IM 9107
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-8949
; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-466-860-54

Query Match 1.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 CTGCTGAGCAGCGC 175
Db 16 CTGCTGAGCAGCGC 1

RESULT 17
US-08-276-776-54/c
; Sequence 54, Application US/08276776
; Patent No. 6207645
; GENERAL INFORMATION:
; APPLICANT: HOWELL, MARK D.
; APPLICANT: BROSTOFF, STEVEN W.
; APPLICANT: CARLO, DENNIS J.
; TITLE OF INVENTION: VACCINATION AND METHODS AGAINST DISEASES
; TITLE OF INVENTION: RESULTING FROM PATHOGENIC RESPONSES BY SPECIFIC T CELL
; TITLE OF INVENTION: POPULATIONS
; NUMBER OF SEQUENCES: 75
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL AND FLORES
; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,860
; FILING DATE: 24-DEC-1991
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: CAMPBELL, CATHRYN
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-IM 9107
; TELEPHONE: 619-535-9001
; TELEFAX: 619-535-8949
; INFORMATION FOR SEQ ID NO: 54:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-466-860-54

Query Match 1.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 CTGCTGAGCAGCGC 175
Db 16 CTGCTGAGCAGCGC 1
```

;/ MEDIUM TYPE: Floppy disk  
;/ COMPUTER: IBM PC compatible  
;/ OPERATING SYSTEM: PC-DOS/MS-DOS  
;/ SOFTWARE: PatentIn Release #1.0, Version #1.25  
;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: US/08/276,776  
;/ FILING DATE:  
;/ CLASSIFICATION:  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: 07/813,867  
;/ FILING DATE:  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: CAMPBELL, CATHRYN  
;/ REGISTRATION NUMBER: 31,815  
;/ REFERENCE/DOCKET NUMBER: P-IM 9107  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: 619-535-9001  
;/ TELEFAX: 619-535-8949  
;/ INFORMATION FOR SEQ ID NO: 54:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 18 base pairs  
;/ TYPE: nucleic acid  
;/ STRANDEDNESS: single  
;/ TOPOLOGY: linear  
;/ MOLECULE TYPE: DNA (genomic)  
;/ US-08-276-776-54

Query Match 1.6% Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 160 CTGCGTGCAGCAGCGC 175  
Db 16 CTGCGTGCAGCAGCGC 1

RESULT 18  
US-08-471-209-54/c  
;/ Sequence 54, Application US/08471209  
;/ Patent No. 6221352  
;/ GENERAL INFORMATION:  
;/ APPLICANT: HOWELL, MARK D.  
;/ APPLICANT: BROSTOFF, STEVEN W.  
;/ APPLICANT: CARLO, DENNIS J.  
;/ TITLE OF INVENTION: VACCINATION AND METHODS AGAINST DISEASES  
;/ TITLE OF INVENTION: RESULTING FROM PATHOGENIC RESPONSES BY SPECIFIC T CELL  
;/ TITLE OF INVENTION: POPULATIONS  
;/ NUMBER OF SEQUENCES: 75  
;/ CORRESPONDENCE ADDRESS:  
;/ ADDRESSEE: CAMPBELL AND FLORES  
;/ STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
;/ CITY: SAN DIEGO  
;/ STATE: CALIFORNIA  
;/ COUNTRY: UNITED STATES  
;/ ZIP: 92122  
;/ COMPUTER READABLE FORM:  
;/ MEDIUM TYPE: Floppy disk  
;/ COMPUTER: IBM PC compatible  
;/ OPERATING SYSTEM: PC-DOS/MS-DOS  
;/ SOFTWARE: PatentIn Release #1.0, Version #1.25  
;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: US/08/471,209  
;/ FILING DATE:  
;/ CLASSIFICATION: 424  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/813,867  
;/ FILING DATE: 24-DEC-1991  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: CAMPBELL, CATHRYN  
;/ REGISTRATION NUMBER: 31,815  
;/ REFERENCE/DOCKET NUMBER: P-IM 9107  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: 619-535-9001

;/ TELEFAX: 619-535-8949  
;/ INFORMATION FOR SEQ ID NO: 54:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 18 base pairs  
;/ TYPE: nucleic acid  
;/ STRANDEDNESS: single  
;/ TOPOLOGY: linear  
;/ MOLECULE TYPE: DNA (genomic)  
;/ US-08-471-209-54

Query Match 1.6% Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 160 CTGCGTGCAGCAGCGC 175  
Db 16 CTGCGTGCAGCAGCGC 1

RESULT 19  
US-08-182-967-4/c  
;/ Sequence 4, Application US/08182967  
;/ Patent No. 6413516  
;/ GENERAL INFORMATION:  
;/ APPLICANT: Chang, Jennie C.C.  
;/ APPLICANT: Brostoff, Steven W.  
;/ APPLICANT: Carlo, Dennis J.  
;/ TITLE OF INVENTION: Peptides and Methods Against Psoriasis  
;/ NUMBER OF SEQUENCES: 34  
;/ CORRESPONDENCE ADDRESS:  
;/ ADDRESSEE: Campbell & Flores LLP  
;/ STREET: 4370 La Jolla Village Drive, Suite 700  
;/ CITY: San Diego  
;/ STATE: California  
;/ COUNTRY: United States  
;/ ZIP: 92122

;/ COMPUTER READABLE FORM:  
;/ MEDIUM TYPE: Floppy disk  
;/ COMPUTER: IBM PC compatible  
;/ OPERATING SYSTEM: PC-DOS/MS-DOS  
;/ SOFTWARE: PatentIn Release #1.0, Version #1.30  
;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: US/08/182,967  
;/ FILING DATE: 14-JAN-1994  
;/ CLASSIFICATION: 435  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 08/462,471  
;/ FILING DATE: 05-JUN-1995  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/813,867  
;/ FILING DATE: 14-DEC-1991  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/644,611  
;/ FILING DATE: 22-JAN-1991  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/530,229  
;/ FILING DATE: 30-MAY-1990  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/382,085  
;/ FILING DATE: 18-JUL-1989  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/382,086  
;/ FILING DATE: 18-JUL-1989  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: US 07/326,314  
;/ FILING DATE: 21-MAR-1989  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: Campbell, Cathryn A.  
;/ REGISTRATION NUMBER: 31,815  
;/ REFERENCE/DOCKET NUMBER: P-IM 9830  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: (619) 535-9001  
;/ TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-182-967-4

Query Match 1.6%; Score 16; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 CTGCTGAGCAGCGC 175  
Db 16 CTGCTGAGCAGCGC 1

RESULT 20  
US-07-936-110-2  
Sequence 2, Application US/07936110  
Patent No. 5610052  
GENERAL INFORMATION:  
APPLICANT: James D. Thompson  
APPLICANT: Kenneth G. Draper  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TREATMENT OF COLON CARCINOMA  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 611 West Sixth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90017

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)  
SOFTWARE: WordPerfect (Version 5.1)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/936,110  
FILING DATE: 19920826  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 197/246  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-07-936-110-2

Query Match 1.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 34;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGGCGCAGCTGG 131  
Db 1 GCGCGCGGCGCAGCAGCG 19

RESULT 21  
US-08-777-918-2  
Sequence 2, Application US/08777918  
Patent No. 5801158  
GENERAL INFORMATION:  
APPLICANT: James D. Thompson  
APPLICANT: Kenneth G. Draper  
TITLE OF INVENTION: METHOD AND REAGENT FOR  
TREATMENT OF COLON CARCINOMA  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 611 West Sixth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90017

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)  
SOFTWARE: WordPerfect (Version 5.1)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/777,918  
FILING DATE: 23-DEC-1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/936,110  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 197/246  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-777-918-2

Query Match 1.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 34;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGGCGCAGCTGG 131  
Db 1 GCGCGCGGCGCAGCAGCG 19

RESULT 22  
US-09-422-978-5276  
Sequence 5276, Application US/09422978  
Patent No. 6537751  
GENERAL INFORMATION:  
APPLICANT: Cohen, Daniel  
APPLICANT: Blumenfeld, Marta  
APPLICANT: Chumakov, Ilya  
TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
FILE REFERENCE: GENSET.020CP1  
CURRENT APPLICATION NUMBER: US/09/422,978  
CURRENT FILING DATE: 1999-10-20  
EARLIER APPLICATION NUMBER: US 09/298,850  
EARLIER FILING DATE: 1999-04-21  
EARLIER APPLICATION NUMBER: US 60/109,732  
EARLIER FILING DATE: 1998-11-23  
EARLIER APPLICATION NUMBER: US 60/082,614  
EARLIER FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 11796

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; SEQ ID NO 5276
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-23123 for SEQ 1342,
; US-09-422-978-5276

Query Match      1.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 34;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 745 GGAGTAAGGAGAAAAAGAG 763
   ||| ||||| |||||
Db 1 GGAACAAGGAGAAAAAGAG 19

RESULT 23
US-08-465-485A-28
; Sequence 28, Application US/08465485A
; Patent No. 5831066
; GENERAL INFORMATION:
; APPLICANT: Reed, John
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: P.C.
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 S. Jefferson Davis Hwy., Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,485A
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/124,256
; FILING DATE: 20-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/288,692
; FILING DATE: 21-FEB-1992
; APPLICATION NUMBER: US 07/840,716
; FILING DATE: 22-DEC-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Fortney, Andrew D.
; REGISTRATION NUMBER: 34,600
; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (408) 436-2070
; TELEFAX: (408) 436-2075
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA
; ANTI-SENSE: YES
; FEATURE:
; NAME/KEY: Modified_base
; LOCATION: 18..19
; OTHER INFORMATION: Last two internucleoside linkages are
; OTHER INFORMATION: Last two internucleoside linkages are
; US-09-080-285-28

; OTHER INFORMATION: phosphorothioates
; US-08-465-485A-28

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 41;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGCGCGCGCGAGTCGCG 132
   ||||| ||||| |||||
Db 2 GCGCGCGCGCGAGTCGCG 20

RESULT 24
US-09-080-285-28
; Sequence 28, Application US/09080285
; Patent No. 6040181
; GENERAL INFORMATION:
; APPLICANT: Reed, John
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; ADDRESSEE: 1755 S. Jefferson Davis Hwy., Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/080,285
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/465,485
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/124,256
; FILING DATE: 20-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/840,716
; FILING DATE: 21-FEB-1992
; APPLICATION NUMBER: US 07/288,692
; FILING DATE: 22-DEC-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Fortney, Andrew D.
; REGISTRATION NUMBER: 34,600
; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (408) 436-2070
; TELEFAX: (408) 436-2075
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA
; ANTI-SENSE: YES
; FEATURE:
; NAME/KEY: Modified_base
; LOCATION: 18..19
; OTHER INFORMATION: Last two internucleoside linkages are
; OTHER INFORMATION: Last two internucleoside linkages are
; US-09-080-285-28

; OTHER INFORMATION: phosphorothioates
; US-09-080-285-28

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 34;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 745 GGAGTAAGGAGAAAAAGAG 763
   ||| ||||| |||||
Db 1 GGAACAAGGAGAAAAAGAG 19

RESULT 23
US-08-465-485A-28
; Sequence 28, Application US/08465485A
; Patent No. 5831066
; GENERAL INFORMATION:
; APPLICANT: Reed, John
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: P.C.
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 S. Jefferson Davis Hwy., Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,485A
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/124,256
; FILING DATE: 20-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/288,692
; FILING DATE: 21-FEB-1992
; APPLICATION NUMBER: US 07/840,716
; FILING DATE: 22-DEC-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Fortney, Andrew D.
; REGISTRATION NUMBER: 34,600
; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (408) 436-2070
; TELEFAX: (408) 436-2075
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA
; ANTI-SENSE: YES
; FEATURE:
; NAME/KEY: Modified_base
; LOCATION: 18..19
; OTHER INFORMATION: Last two internucleoside linkages are
; OTHER INFORMATION: Last two internucleoside linkages are
; US-09-080-285-28
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Best Local Similarity 89.5%; Pred. No. 41;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGCGCGCGCAGCTGCGC 132  
|||||  
Db 2 GCGCGCGCGCGCAGCGC 20

## RESULT 25

US-09-517-584A-13  
; Sequence 13, Application US/09517584A  
; Patent No. 6187587  
; GENERAL INFORMATION:  
; APPLICANT: Vickie L. Brown-Driver  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF E2F TRANSCRIPTION FACTOR 1 EXPRESSION  
; FILE REFERENCE: RTS-0121  
; CURRENT APPLICATION NUMBER: US/09/517,584A  
; CURRENT FILING DATE: 2000-03-22  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 13  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-517-584A-13

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 41;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 14 CAGCGCGCGCGGAGGAGC 32  
|||||  
Db 1 CAGCGCGCGCGGCGGCGC 19

## RESULT 26

US-09-030-701-65  
; Sequence 65, Application US/09030701B  
; Patent No. 6214806  
; GENERAL INFORMATION:  
; APPLICANT: Krieg, Arthur M.  
; APPLICANT: Schwartz, David A.  
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF LPS-ASSOCIATED DISORDERS  
; FILE REFERENCE: C1039/7011  
; CURRENT APPLICATION NUMBER: US/09/030,701B  
; CURRENT FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/039,405  
; PRIOR FILING DATE: 1997-02-28  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 65  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic oligonucleotide  
US-09-030-701-65

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 41;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCAGCTGCGC 131  
|||||  
Db 1 GCGCGCGCGCGCGCGCGC 19

## RESULT 27

US-09-476-256-7  
; Sequence 7, Application US/09476256  
; Patent No. 6228592  
; GENERAL INFORMATION:  
; APPLICANT: Laboratory of Molecular Biophotonics  
; TITLE OF INVENTION: Nucleic Acid Detection in Cytoplasm  
; FILE REFERENCE: BHP99-02  
; CURRENT APPLICATION NUMBER: US/09/476,256  
; CURRENT FILING DATE: 1999-12-30  
; NUMBER OF SEQ ID NOS: 29  
; SEQ ID NO 7  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: probe  
US-09-476-256-7

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 41;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 744 AGGAGTAAGGAGAAAGA 762  
|||||  
Db 2 AGGAGTAAGGAGAAAGAGA 20

## RESULT 28

US-09-476-256-12  
; Sequence 12, Application US/09476256  
; Patent No. 6228592  
; GENERAL INFORMATION:  
; APPLICANT: Laboratory of Molecular Biophotonics  
; TITLE OF INVENTION: Nucleic Acid Detection in Cytoplasm  
; FILE REFERENCE: BHP99-02  
; CURRENT APPLICATION NUMBER: US/09/476,256  
; CURRENT FILING DATE: 1999-12-30  
; NUMBER OF SEQ ID NOS: 29  
; SEQ ID NO 12  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: probe  
US-09-476-256-12

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 41;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 744 AGGAGTAAGGAGAAAGA 762  
|||||  
Db 2 AGGAGTAAGGAGAAAGAGA 20

## RESULT 29

US-09-082-649B-57  
; Sequence 57, Application US/09082649B  
; Patent No. 6339068  
; GENERAL INFORMATION:  
; APPLICANT: Davis, Heather L.  
; APPLICANT: Krieg, Arthur M.  
; APPLICANT: Schorr, Joachim  
; APPLICANT: Wu, Tong  
; TITLE OF INVENTION: Vectors and Methods for Immunization or Therapeutic Protocols  
; FILE REFERENCE: C1039/7009  
; CURRENT APPLICATION NUMBER: US/09/082,649B  
; CURRENT FILING DATE: 1998-05-20  
; PRIOR APPLICATION NUMBER: US 60/047,233  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: US 60/047,209  
; PRIOR FILING DATE: 1997-05-20



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; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-57

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 41;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGCAGCTGCG 131
Db 1 GCGCGCGCGCGCGCGCGCG 19

RESULT 30
US-09-724-426-28
; Sequence 28, Application US/09724426
; Patent No. 6414134
; GENERAL INFORMATION:
; APPLICANT: Reed, John
; TITLE OF INVENTION: Regulation of BCL-2 Gene Expression
; FILE REFERENCE: 10412-024
; CURRENT APPLICATION NUMBER: US/09/724,426
; CURRENT FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-724-426-28

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 41;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGCGCGCGCGCAGCTGCGC 132
Db 2 GCGCGCGCGCGCGCGCGCGC 20

RESULT 31
US-09-422-978-9876/c
; Sequence 9876, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GNSSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 9876
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..20
; OTHER INFORMATION: downstream amplification primer 99-7985 for SEQ 2011, in compleme
```

```
US-09-422-978-9876

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 41;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 428 GTGAGATGGAGATAAAGA 446
Db 20 GTGAGATGGAAGTAAAGA 2

RESULT 32
US-08-863-639A-52/c
; Sequence 52, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA: US/08/863,639A
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-52

Query Match      1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGCAGCTGCG 131
Db 20 GCGCGCGCGCGCGCGCGCG 2

RESULT 33
US-08-863-639A-55/c
; Sequence 55, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
```

```
;
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-55

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGGCGCTGCG 131
DB 19 GCGGGCGGGCGGCGCGCG 1

RESULT 34
US-08-863-639A-56
; Sequence 56, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-67

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGGCGCTGCG 131
DB 21 GCGGGCGGGCGGCGCGCG 3

RESULT 35
US-08-863-639A-67/c
; Sequence 67, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-67

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGGCGCTGCG 131
DB 21 GCGGGCGGGCGGCGCGCG 3
```

```
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-56

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGGCGCTGCG 131
DB 2 GCGGGCGGGCGGCGCGCG 20

RESULT 35
US-08-863-639A-67/c
; Sequence 67, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-67

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGGCGCTGCG 131
DB 21 GCGGGCGGGCGGCGCGCG 3
```

```
RESULT 36
US-08-863-639A-68
; Sequence 68, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELEPHONE: (626) 795-6321
; TELEFAX: (626) 796-4000
; INFORMATION FOR SEQ ID NO: 68:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-68

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGCGCGCGCGAGCTGCG 131
|||||
Db 3 GCGGCGCGCGCGCGCGCG 21

RESULT 37
US-08-863-639A-71
; Sequence 71, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
```

```
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELEPHONE: (626) 795-6321
; TELEFAX: (626) 796-4000
; INFORMATION FOR SEQ ID NO: 71:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-71

Query Match 1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 48;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGCGCGCGCGAGCTGCG 131
|||||
Db 1 GCGGCGCGCGCGCGCGCG 19

RESULT 38
US-08-416-214A-11
; Sequence 11, Application US/08416214A
; Patent No. 598596
; GENERAL INFORMATION:
; APPLICANT: Bergan, Raymond; Neckers, Len
; TITLE OF INVENTION: Inhibition Of Protein
; TITLE OF INVENTION: Kinase Activity By Aptameric Action Of
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/416,214A
; FILING DATE: 04-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Brown, Kathryn M.
; REGISTRATION NUMBER: 34,556
; REFERENCE/DOCKET NUMBER: 2026-4166
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: Other nucleic acid
; HYPOTHETICAL: Yes
; ANTI-SENSE: NO
```

US-08-416-214A-11

Query Match 1.6%; Score 15.8; DB 1; Length 21;  
Best Local Similarity 89.5%; Pred. No. 48;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCGAGCTCGC 131  
|||||  
Db 1 GCGCGCGCGCGCGCGCGCG 19  
|||||

RESULT 39

US-09-435-296-56  
; Sequence 56, Application US/09435296  
; Patent No. 6171860  
; GENERAL INFORMATION:  
; APPLICANT: Brenda F. Baker  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF RANK EXPRESSION  
; FILE REFERENCE: RTS-0116  
; CURRENT APPLICATION NUMBER: US/09/435,296  
; CURRENT FILING DATE: 1999-11-05  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 56  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-435-296-56

Query Match 1.5%; Score 15.2; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 52;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 294 CAGCGCGCGCGCGCCACC 313  
|||||  
Db 1 CAGCGCGCGCGCGCCCTCC 20  
|||||

RESULT 40

US-09-422-978-6333/c  
; Sequence 6333, Application US/09422978  
; Patent No. 6537751  
; GENERAL INFORMATION:  
; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET.020CP1  
; CURRENT APPLICATION NUMBER: US/09/422,978  
; CURRENT FILING DATE: 1999-10-20  
; EARLIER APPLICATION NUMBER: US 09/298,850  
; EARLIER FILING DATE: 1999-04-21  
; EARLIER APPLICATION NUMBER: US 60/109,732  
; EARLIER FILING DATE: 1998-11-23  
; EARLIER APPLICATION NUMBER: US 60/082,614  
; EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 6333  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..20  
; OTHER INFORMATION: upstream amplification primer 99-10776 for SEQ 2399,  
US-09-422-978-6333

Query Match 1.5%; Score 15.2; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 52;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 550 GAAAGAGAGAAATAGCGCAGG 569  
|||||Db 20 GAAATGAGAAATAGGAAAGG 1  
|||||

RESULT 41

US-08-466-337A-15/c  
; Sequence 15, Application US/08466337A  
; Patent No. 5830756  
; GENERAL INFORMATION:  
; APPLICANT: Haskill, John S.  
; APPLICANT: Baldwin Jr., Albert S.  
; APPLICANT: Ralph, Peter  
; TITLE OF INVENTION: Inhibitor of NF-kB Transcriptional  
; TITLE OF INVENTION: Activator and Uses Thereof  
; NUMBER OF SEQUENCES: 18  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
; STREET: 6300 Sears Tower/ 233 South Wacker Drive  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: United States  
; ZIP: 60606-8402  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/08/466,337A  
; APPLICATION NUMBER: US/08/466,337A  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Pochopien, Donald J.  
; REGISTRATION NUMBER: 32,167  
; REFERENCE/DOCKET NUMBER: 0899.008/33518  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312/474-6300  
; TELEFAX: 312/474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 15:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-466-337A-15

Query Match 1.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 40;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 531 CTGGAAGCAGCAATG 545  
|||||Db 15 CTGGAAGCAGCAATG 1  
|||||

RESULT 42

US-08-475-359-15/c  
; Sequence 15, Application US/08475359  
; Patent No. 5846714  
; GENERAL INFORMATION:  
; APPLICANT: Haskill, John S.  
; APPLICANT: Baldwin Jr., Albert S.  
; APPLICANT: Ralph, Peter  
; TITLE OF INVENTION: Inhibitor of NF-kB Transcriptional  
; TITLE OF INVENTION: Activator and Uses Thereof  
; NUMBER OF SEQUENCES: 18  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
; STREET: 6300 Sears Tower/ 233 South Wacker Drive  
; CITY: Chicago

STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/475,359  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Pochopien, Donald J.  
REGISTRATION NUMBER: 32,167  
REFERENCE/DOCKET NUMBER: 0899,004.33514  
TELEPHONE: 312/474-6300  
TELEFAX: 312/474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-475-359-15

Query Match 1.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 40;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 531 CTGGAAGCAGCAATG 545  
Db 15 CTGGAAGCAGCAATG 1

RESULT 43  
US-08-465-887A-15/c  
Sequence 15, Application US/08465887A  
Patent No. 6001582  
GENERAL INFORMATION:  
APPLICANT: Haskill, John S.  
APPLICANT: Baldwin Jr., Albert S.  
APPLICANT: Ralph, Peter  
TITLE OF INVENTION: Inhibitor of NF-kB Transcriptional  
TITLE OF INVENTION: Activator and Uses Thereof  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 6300 Sears Tower/ 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/465,887A  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Pochopien, Donald J.  
REGISTRATION NUMBER: 32,167  
REFERENCE/DOCKET NUMBER: 0899,006/33516  
TELEPHONE: 312/474-6300  
TELEFAX: 312/474-0448  
TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-465-887A-15

Query Match 1.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 40;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 531 CTGGAAGCAGCAATG 545  
Db 15 CTGGAAGCAGCAATG 1

RESULT 44  
US-08-758-306-499  
Sequence 499, Application US/08758306  
Patent No. 5807743  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Dan T.  
APPLICANT: McSwiggen, James A.  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: TREATMENT OF DISEASES  
TITLE OF INVENTION: ASSOCIATED WITH  
TITLE OF INVENTION: INTERLEUKIN-2 RECEPTOR  
TITLE OF INVENTION: GAMMA-CHAIN EXPRESSION  
NUMBER OF SEQUENCES: 1379  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: Storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/758,306  
FILING DATE: December 3, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 212/132  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 499:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-758-306-499

Query Match 1.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 44;  
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 405 TCCTGAGCGGCCCGC 422

Db 1 UCCUGCAGCGGCCCGC 18  
:|||||

RESULT 45  
US-09-085-759-95/c  
; Sequence 95, Application US/09085759  
; Patent No. 6096722  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett, Christopher Mirabelli,  
; APPLICANT: Brenda Baker  
; TITLE OF INVENTION: Antisense Modulation of Cell Adhesion  
; TITLE OF INVENTION: Molecule Expression and Treatment of Cell Adhesion  
; TITLE OF INVENTION: Molecule-Associated Diseases  
; NUMBER OF SEQUENCES: 109  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Law Offices of Jane Massey Licata  
; STREET: 66 East Main Street  
; CITY: Marlton  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 08053  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
; COMPUTER: IBM PS/2  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: WORDPERFECT 5.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/085,759  
; FILING DATE: herewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/440,740  
; FILING DATE: May 12, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 063,167  
; FILING DATE: May 17, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 969,151  
; FILING DATE: February 10, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 007,997  
; FILING DATE: January 20, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 939,855  
; FILING DATE: September 2, 1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 567,286  
; FILING DATE: August 14, 1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane Massey Licata  
; REGISTRATION NUMBER: 32,257  
; REFERENCE/DOCKET NUMBER: ISPH-0311  
; TELEPHONE: (609) 779-2400  
; TELEFAX: (609) 779-8488  
; INFORMATION FOR SEQ ID NO: 95:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18  
; TYPE: Nucleic Acid  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear

US-09-085-759-95  
Query Match 1.5%; Score 14.9; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 44;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 27 AGGAGCCCTCAAGCGGAG 44  
Db 18 AGGAGCACTCAAGGGAG 1

RESULT 46  
US-08-909-742-3/c  
; Sequence 3, Application US/08909742  
; Patent No. 6007991  
; GENERAL INFORMATION:  
; APPLICANT: Vimala S. Sivaraman  
; APPLICANT: Hsien-Yu Wang  
; APPLICANT: Craig C. Malbon  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR MITOGEN-  
; TITLE OF INVENTION: ACTIVATED PROTEIN KINASES AS THERAPY FOR  
; TITLE OF INVENTION: BREAST CANCER  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hoffmann & Baron, LLP  
; STREET: 350 Jericho Turnpike  
; CITY: Jericho  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11753  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for windows  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/909,742  
; FILING DATE: August 12, 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/831,994  
; FILING DATE: April 1, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/827,520  
; FILING DATE: March 28, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Adams, Lindsay S.  
; REGISTRATION NUMBER: 36,425  
; REFERENCE/DOCKET NUMBER: 178-225 CIP II  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (516) 822-3550  
; TELEFAX: (516) 822-3582  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 nucleotides  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: mRNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: YES  
US-08-909-742-3

Query Match 1.4%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 43;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 112 TGGCGCGCGCGCAGC 127  
Db 16 TGGCGCGCGCGCGGC 1

RESULT 47  
US-08-909-742-4/c  
; Sequence 4, Application US/08909742  
; Patent No. 6007991  
; GENERAL INFORMATION:  
; APPLICANT: Vimala S. Sivaraman  
; APPLICANT: Hsien-Yu Wang  
; APPLICANT: Craig C. Malbon  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR MITOGEN-  
; TITLE OF INVENTION: ACTIVATED PROTEIN KINASES AS THERAPY FOR  
; TITLE OF INVENTION: BREAST CANCER  
; NUMBER OF SEQUENCES: 4

```
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hoffmann & Baron, LLP
; STREET: 350 Jericho Turnpike
; CITY: Jericho
; STATE: New York
; COUNTRY: USA
; ZIP: 11753
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for windows
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/909,742
; FILING DATE: August 12, 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/831,994
; FILING DATE: April 1, 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/827,520
; FILING DATE: March 28, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Adams, Lindsay S.
; REGISTRATION NUMBER: 36,425
; REFERENCE/DOCKET NUMBER: 178-225 CIP II
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 822-3550
; TELEFAX: (516) 822-3582
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: YES
; US-08-909-742-4

Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 43;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGGCGGCGGCAGC 127
Db 16 TGGCGGCGGCGGCAGC 1

RESULT 48
US-09-412-289-3/c
; Sequence 3, Application US/09412289
; Patent No. 6271210
; GENERAL INFORMATION:
; APPLICANT: Sivaraman, Vimala S.
; APPLICANT: Wang, Hsien-Yu
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR MITOGEN-ACTIVATED
; FILE REFERENCE: Seq. 1-4 (178-225 CIP II/CON)
; CURRENT APPLICATION NUMBER: US/09/412,289
; CURRENT FILING DATE: 1999-10-05
; EARLIER FILING DATE: 1997-08-12
; EARLIER FILING DATE: 1997-04-01
; EARLIER FILING DATE: 1997-03-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 17
; TYPE: RNA

Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 43;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGGCGGCGGCAGC 127
Db 16 TGGCGGCGGCGGCAGC 1

RESULT 49
US-09-412-289-4/c
; Sequence 4, Application US/09412289
; Patent No. 6271210
; GENERAL INFORMATION:
; APPLICANT: Sivaraman, Vimala S.
; APPLICANT: Wang, Hsien-Yu
; APPLICANT: Malbon, Craig C.
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR MITOGEN-ACTIVATED
; FILE REFERENCE: Seq. 1-4 (178-225 CIP II/CON)
; CURRENT APPLICATION NUMBER: US/09/412,289
; CURRENT FILING DATE: 1999-10-05
; EARLIER FILING DATE: 1997-08-12
; EARLIER FILING DATE: 1997-04-01
; EARLIER FILING DATE: 1997-03-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 17
; TYPE: DNA

Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 43;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGGCGGCGGCAGC 127
Db 16 TGGCGGCGGCGGCAGC 1

RESULT 50
US-08-857-946-21
; Sequence 21, Application US/08857946
; Patent No. 5994075
; GENERAL INFORMATION:
; APPLICANT: Goodfellow, P.N.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A
; FILE REFERENCE: Seq. 1-4 (178-225 CIP II/CON)
; CURRENT APPLICATION NUMBER: US/09/412,289
; CURRENT FILING DATE: 1999-10-05
; EARLIER FILING DATE: 1999-08-12
; EARLIER FILING DATE: 1997-08-12
; EARLIER FILING DATE: 1997-04-01
; EARLIER FILING DATE: 1997-03-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 17
; TYPE: RNA
```

```
;
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthesized
; OTHER INFORMATION: antisense oligonucleotide
; US-09-412-289-3

Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 43;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGGCGGCGGCAGC 127
Db 16 TGGCGGCGGCGGCAGC 1

RESULT 49
US-09-412-289-4/c
; Sequence 4, Application US/09412289
; Patent No. 6271210
; GENERAL INFORMATION:
; APPLICANT: Sivaraman, Vimala S.
; APPLICANT: Wang, Hsien-Yu
; APPLICANT: Malbon, Craig C.
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR MITOGEN-ACTIVATED
; FILE REFERENCE: Seq. 1-4 (178-225 CIP II/CON)
; CURRENT APPLICATION NUMBER: US/09/412,289
; CURRENT FILING DATE: 1999-10-05
; EARLIER FILING DATE: 1997-08-12
; EARLIER FILING DATE: 1997-04-01
; EARLIER FILING DATE: 1997-03-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 17
; TYPE: DNA

Query Match 1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 43;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 112 TGGCGGCGGCGGCAGC 127
Db 16 TGGCGGCGGCGGCAGC 1

RESULT 50
US-08-857-946-21
; Sequence 21, Application US/08857946
; Patent No. 5994075
; GENERAL INFORMATION:
; APPLICANT: Goodfellow, P.N.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A
; FILE REFERENCE: Seq. 1-4 (178-225 CIP II/CON)
; CURRENT APPLICATION NUMBER: US/09/412,289
; CURRENT FILING DATE: 1999-10-05
; EARLIER FILING DATE: 1997-08-12
; EARLIER FILING DATE: 1997-04-01
; EARLIER FILING DATE: 1997-03-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 17
; TYPE: RNA
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/857,946
; FILING DATE: 16-MAY-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/60/017,824
; FILING DATE: 17-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Kathleen M. Williams
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3529/05573
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-345-9100
; TELEFAX: 617-345-9111
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; US-08-857-946-21

Query Match 1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 52;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 18 CGCGCGCGGAGGCC 33
Db 1 CGCGCGCGGAGGCC 16

RESULT 51
US-08-970-740-21
; Sequence 21, Application US/08970740
; Patent No. 6015670
; GENERAL INFORMATION:
; APPLICANT: Goodfellow, P.N.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A
; TITLE OF INVENTION: GENE OF INTEREST
; NUMBER OF SEQUENCES: 162
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Inc.
; STREET: 28 State Street, 28th Floor
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/970,740
; FILING DATE: 14-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/857,946
; FILING DATE: 16-MAY-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/017,824
; FILING DATE: 17-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Kathleen M. Williams
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3529/59829
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-227-7111
; TELEFAX: 617-227-4399
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; US-08-857-946-21
```

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; LENGTH: 18 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; US-08-970-740-21

Query Match 1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 52;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 18 CGCGCGCGGAGGCC 33
Db 1 CGCGCGCGGAGGCC 16

RESULT 52
US-09-143-212-45
; Sequence 45, Application US/09143212B
; Patent No. 6077672
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia and Lex M. Coweert
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRADD EXPRESSION
; FILE REFERENCE: RTS-0005
; CURRENT APPLICATION NUMBER: US/09/143,212B
; CURRENT FILING DATE: 1998-08-28
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 45
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-143-212-45

Query Match 1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 52;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 112 TGGCGCGCGCGCAGC 127
Db 3 TGGCGCGCGCGCGC 18

RESULT 53
US-09-422-978-4210/c
; Sequence 4210, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilva
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4210
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-1394 for SEQ 276,
; US-09-422-978-4210
```



Query Match 1.4%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 52;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 549 GGAAGGAGAAATAGG 564  
DB 17 GGAAGGAGAAATATG 2

## RESULT 54

US-09-663-834A-43  
; Sequence 43, Application US/09663834A  
; Patent No. 6613567  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF HER-2 EXPRESSION  
; FILE REFERENCE: RFS-0033  
; CURRENT APPLICATION NUMBER: US/09/663,834A  
; CURRENT FILING DATE: 2000-09-15  
; NUMBER OF SEQ ID NOS: 48  
; SEQ ID NO 43  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-663-834A-43

Query Match 1.4%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 52;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 775 CCTTTCCAGAGTGCA 790  
DB 1 CCTTTCCAGAGTGCA 16

## RESULT 55

US-09-496-694B-99/c  
; Sequence 99, Application US/09496694B  
; Patent No. 6335194  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Elizabeth J. Ackermann  
; APPLICANT: Eric B. Swayze  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SURVIVIN EXPRESSION  
; FILE REFERENCE: ISPH-0439  
; CURRENT APPLICATION NUMBER: US/09/496,694B  
; CURRENT FILING DATE: 2000-02-02  
; PRIOR APPLICATION NUMBER: 09/286,407  
; PRIOR FILING DATE: 1999-04-05  
; PRIOR APPLICATION NUMBER: 09/163,162  
; PRIOR FILING DATE: 1998-09-29  
; NUMBER OF SEQ ID NOS: 249  
; SEQ ID NO 99  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-496-694B-99

Query Match 1.4%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 62;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 112 TGGCGGCGCGGCA 125  
DB 16 TGGCGGCGCGGCA 3

RESULT 56.  
US-08-584-040-4308  
; Sequence 4308, Application US/08584040  
; Patent No. 6346398  
; GENERAL INFORMATION:  
; APPLICANT: Pavco, Pamela  
; APPLICANT: McSwiggen, James  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
; TITLE OF INVENTION: TREATMENT OF DISEASES OR  
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
; TITLE OF INVENTION: GROWTH FACTOR  
; NUMBER OF SEQUENCES: 8502  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/584,040  
; FILING DATE: January 11, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/005,974  
; FILING DATE: October 26, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 218/064  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 4308:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-584-040-4308

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 58.8%; Pred. No. 56;  
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 921 TTTCCTGATTGGAGGAG 937  
DB 1 UUUCCUGUAGGAGGAG 17

## RESULT 57

US-08-679-645-801  
; Sequence 801, Application US/08679645  
; Patent No. 6350934  
; GENERAL INFORMATION:  
; APPLICANT: Zwick, Michael G.  
; APPLICANT: Edington, Brent E.  
; APPLICANT: McSwiggen, James A.  
; APPLICANT: Merlo, Patricia Ann Owens  
; APPLICANT: Guo, Lining  
; APPLICANT: Skokut, Thomas A.  
; APPLICANT: Young, Scott A.

APPLICANT: Folkerts, Otto  
APPLICANT: Merlo, Donald J.  
TITLE OF INVENTION: COMPOSITION AND METHODS FOR  
TITLE OF INVENTION: MODULATION OF GENE EXPRESSION  
TITLE OF INVENTION: IN PLANTS  
NUMBER OF SEQUENCES: 1263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/679,645  
FILING DATE: July 12, 1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/001,135  
FILING DATE: July 13, 1995  
APPLICATION NUMBER: 08/300,726  
FILING DATE: September 2, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 219/247  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 801:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-679-645-801  
Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 64.7%; Pred. No. 56;  
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
Qy 203 CCTCGACTTCCCGTCG 219  
Db 1 CCUCGAGUUCUCGUCG 17  
RESULT 58  
US-09-474-432B-565/c  
Sequence 565, Application US/09474432B  
Patent No. 6528640  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Beigelman, Leo  
APPLICANT: Burgin, Alex  
APPLICANT: Beaudry, Amber  
APPLICANT: Karpeisky, Alex  
APPLICANT: Adamic, Jasenka  
APPLICANT: Sweedler, David  
APPLICANT: Zinnen, Shawn  
TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot  
FILE REFERENCE: MBH00-831-B (247/276)  
CURRENT APPLICATION NUMBER: US/09/474,432B  
APPLICATION FILING DATE: 1999-12-19  
PRIOR APPLICATION NUMBER: US 60/064,866  
PRIOR FILING DATE: 1997-11-05  
NUMBER OF SEQ ID NOS: 1526  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 581  
LENGTH: 17  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-09-474-432B-581  
Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 281 CCCACGAGCGCCGAGC 297  
Db 1 CCCCGAGCGCGGAGC 17  
RESULT 60  
US-09-371-772B-2075  
Sequence 2075, Application US/09371772B  
Patent No. 6566127  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim

PRIOR APPLICATION NUMBER: US 60/084,727  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: US 09/186,675  
PRIOR FILING DATE: 1998-11-04  
PRIOR APPLICATION NUMBER: US 09/301,511  
PRIOR FILING DATE: 1999-04-28  
NUMBER OF SEQ ID NOS: 1526  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 565  
LENGTH: 17  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-09-474-432B-565  
Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 51 GCGCGCGGCTGCCGCG 67  
Db 17 GCGCGCGGCTGCCGCG 1  
RESULT 59  
US-09-474-432B-581  
Sequence 581, Application US/09474432B  
Patent No. 6528640  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Beigelman, Leo  
APPLICANT: Burgin, Alex  
APPLICANT: Beaudry, Amber  
APPLICANT: Karpeisky, Alex  
APPLICANT: Adamic, Jasenka  
APPLICANT: Sweedler, David  
APPLICANT: Zinnen, Shawn  
TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot  
FILE REFERENCE: MBH00-831-B (247/276)  
CURRENT APPLICATION NUMBER: US/09/474,432B  
APPLICATION FILING DATE: 1999-12-19  
PRIOR APPLICATION NUMBER: US 60/064,866  
PRIOR FILING DATE: 1997-11-05  
PRIOR APPLICATION NUMBER: US 60/084,727  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: US 09/186,675  
PRIOR FILING DATE: 1998-11-04  
PRIOR APPLICATION NUMBER: US 09/301,511  
PRIOR FILING DATE: 1999-04-28  
NUMBER OF SEQ ID NOS: 1526  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 581  
LENGTH: 17  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-09-474-432B-581  
Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 281 CCCACGAGCGCCGAGC 297  
Db 1 CCCCGAGCGCGGAGC 17  
RESULT 60  
US-09-371-772B-2075  
Sequence 2075, Application US/09371772B  
Patent No. 6566127  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim

```
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2075
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-2075

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 56;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy      921 TTTCCTGATTGGAGGAG 937
      :::|||:| :|||||
Db      1 UUUUCUGUAGGAGGAG 17

RESULT 61
US-09-476-387-564/c
; Sequence 564, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 564
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-476-387-564

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      51 GCGCGCGGCTGCCGCGG 67
      |||||||||
Db      17 GCGCGCGGCTGCCGCGG 1

RESULT 62
US-09-476-387-580
; Sequence 580, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 580
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-476-387-580

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      281 CCCACGGAGCCGCCGAGC 297
      |||||
Db      1 CCCCGGAGCCGCCGAGC 17

RESULT 63
US-09-866-108A-6303/c
; Sequence 6303, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
```

incorporation into Oligonucleot

;; PRIOR APPLICATION NUMBER: PCT/US01/00668  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00663  
;; PRIOR FILING DATE: 2001-01-30  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 15755  
;; SOFTWARE: Aeomica Sequence Listing Engine  
;; Patent No. 6686188  
;; SEQ ID NO 6303  
;; LENGTH: 17  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
;; US-09-866-108A-6303

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 25 GGAGGAGCCCTCAAGGC 41  
Db 17 GGAGGTGCTCCAGGC 1

RESULT 64  
US-09-866-108A-8005/c  
; Sequence 8005, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wenhang  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AROMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8005  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-866-108A-8005

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 147 GGAGCTGGACCACTGC 163  
Db 17 GGAGCTGCTCCAGCTGC 1

RESULT 65  
US-08-758-306-505/c  
; Sequence 505, Application US/08758306  
; Patent No. 5807743  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: McSwiggen, James A.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
; TITLE OF INVENTION: TREATMENT OF DISEASES  
; TITLE OF INVENTION: ASSOCIATED WITH  
; TITLE OF INVENTION: INTERLEUKIN-2 RECEPTOR  
; TITLE OF INVENTION: GAMMA-CHAIN EXPRESSION  
; NUMBER OF SEQUENCES: 1379  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: Storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/758,306  
; FILING DATE: December 3, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 212/132  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 505:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-758-306-505

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 967 ATTGGGCTCAGAACTG 983  
Db 17 ATTGGGCTCAGAAATTG 1

RESULT 66  
US-08-531-927B-21  
; Sequence 21, Application US/08531927B  
; Patent No. 5840491  
; GENERAL INFORMATION:  
; APPLICANT: Kakizuka, Akira  
; TITLE OF INVENTION: DNA Sequence Encoding the Machado-Joseph  
; Patent No. 5840491  
; TITLE OF INVENTION: Disease Gene and Uses Thereof

NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
STREET: Two Militia Drive  
CITY: Lexington  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02173-4799  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/531,927B  
FILING DATE: 21-SEP-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP H6-251600  
FILING DATE: 21-SEP-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: ATH95-01A  
TELEPHONE: 617-861-6240  
TELEFAX: 617-861-9540  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-531-927B-21

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 916 AACTCTTCTCTGATTGG 932  
Db 1 AACTCTGCTCTGATAGG 17

RESULT 67  
US-08-957-946-14  
Sequence 14, Application US/08857946  
Patent No. 5994075  
GENERAL INFORMATION:  
APPLICANT: Goodfellow, P.N.  
TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A  
TITLE OF INVENTION: GENE OF INTEREST  
NUMBER OF SEQUENCES: 162  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner & Witcoff, Inc.  
STREET: 75 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1807  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Wordperfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/857,946  
FILING DATE: 16-MAY-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/60/017,824  
FILING DATE: 17-MAY-1996

ATTORNEY/AGENT INFORMATION:  
NAME: Kathleen M. Williams  
REGISTRATION NUMBER: 34,380  
REFERENCE/DOCKET NUMBER: 3529/05573  
TELEPHONE: 617-345-9100  
TELEFAX: 617-345-9111  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
US-08-857-946-14

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGCGGCGGCGAGCTGC 130  
Db 1 GCGGCGGCGGCGGCGGC 17

RESULT 68  
US-09-256-496-10  
Sequence 10, Application US/09256496  
Patent No. 5998206  
GENERAL INFORMATION:  
APPLICANT: Lex M. Cowsett  
TITLE OF INVENTION: ANTISENSE MODULATION OF G-APLHA-12 EXPRESSION  
FILE REFERENCE: RTS-0056  
CURRENT APPLICATION NUMBER: US/09/256,496  
CURRENT FILING DATE: 1999-02-23  
NUMBER OF SEQ ID NOS: 86  
SEQ ID NO 10  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-256-496-10

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 13 GCAGGCGGCGGCGGAGG 29  
Db 2 GCAGGCGGCGGCTGAGG 18

RESULT 69  
US-08-970-740-14  
Sequence 14, Application US/08970740  
Patent No. 6015670  
GENERAL INFORMATION:  
APPLICANT: Goodfellow, P.N.  
TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A  
TITLE OF INVENTION: GENE OF INTEREST  
NUMBER OF SEQUENCES: 162  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner & Witcoff, Inc.  
STREET: 28 State Street, 28th Floor  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

Software	WordPerfect 6.1
Current Application Number	US/09/358,381
Current Filing Date	1999-07-21
Number of Seq ID NOS	47
Seq ID NO 13	
Length	18
Type	DNA
Organism	Artificial Sequence
Feature	
Other Information	Antisense Oligonucleotide
US-09-358-381-13	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	18 GCGGGCGGCGACCTCC 2
RESULT 72	
US-09-344-520-34/c	
Sequence 34, Application	US/09344520
Patent No.	6037176
General Information	
Applicant	Frank Bennett
Applicant	Brett P. Monia
Applicant	Lex M. Cowsett
Title of Invention	ANTISENSE MODULATION OF INTEGRIN BETA 3 EXPRESSION
File Reference	RTS-0070
Current Application Number	US/09/344,520
Current Filing Date	1999-06-25
Number of Seq ID NOS	47
Seq ID NO 34	
Length	18
Type	DNA
Organism	Artificial Sequence
Feature	
Other Information	Antisense Oligonucleotide
US-09-344-520-34	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	701 CTGGCAACTCCCATCA 717
DB	18 CTGGAACTCTCATCA 2
RESULT 73	
US-09-143-212-44	
Sequence 44, Application	US/09143212B
Patent No.	6077672
General Information	
Applicant	Brett P. Monia and Lex M. Cowsett
Applicant	Brett P. Monia
Applicant	Lex M. Cowsett
Title of Invention	ANTISENSE MODULATION OF TRADD EXPRESSION
File Reference	RTS-0005
Current Application Number	US/09/143,212B
Current Filing Date	1998-08-28
Number of Seq ID NOS	87
Seq ID NO 44	
Length	18
Type	DNA
Organism	Artificial Sequence
Feature	
Other Information	Antisense Oligonucleotide
US-09-143-212-44	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	267 GCGGTGCGCGCGCC 283
DB	2 GGAGGTGCGCGCGCC 18
RESULT 71	
US-09-358-381-13/c	
Sequence 13, Application	US/09358381
Patent No.	6020199
General Information	
Applicant	Brett P. Monia
Applicant	Lex M. Cowsett
Applicant	Lex M. Cowsett
Title of Invention	ANTISENSE MODULATION OF PTEN EXPRESSION
File Reference	RTS-0079
Current Application Number	US/09/358,381
Current Filing Date	1999-07-21
Number of Seq ID NOS	47
Seq ID NO 13	
Length	18
Type	DNA
Organism	Artificial Sequence
Feature	
Other Information	Antisense Oligonucleotide
US-09-358-381-13	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
RESULT 70	
US-09-358-381-13	
Sequence 13, Application	US/09358381
Patent No.	6020199
General Information	
Applicant	Brett P. Monia
Applicant	Lex M. Cowsett
Applicant	Lex M. Cowsett
Title of Invention	ANTISENSE MODULATION OF PTEN EXPRESSION
File Reference	RTS-0079
Current Application Number	US/09/358,381
Current Filing Date	1999-07-21
Number of Seq ID NOS	47
Seq ID NO 13	
Length	18
Type	DNA
Organism	Artificial Sequence
Feature	
Other Information	Antisense Oligonucleotide
US-09-358-381-13	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
US-08-970-740-14	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
US-08-970-740-14	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
US-08-970-740-14	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
US-08-970-740-14	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
US-08-970-740-14	
Query Match	1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity	88.2%; Pred. No. 67;
Matches	15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	114 GCGGGCGGCGAGCTGC 130
DB	1 GCGGGCGGCGCGCGC 17
US-08-970-740-14	

Oy 114 GCGCGGGGGGAGCTGC 130  
| | | | | | | | | |  
Db 1 GCGCGGGGGGAGCTTC 17

## RESULT 74

US-09-143-212-46  
; Sequence 46, Application US/09143212B  
; Patent No. 6077672  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia and Lex M. Cowseert  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRADD EXPRESSION  
; FILE REFERENCE: R1S-0005  
; CURRENT APPLICATION NUMBER: US/09/143.212B  
; CURRENT FILING DATE: 1998-08-28  
; NUMBER OF SEQ ID NOS: 87  
; SEQ ID NO 45  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-143-212-46

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 12 GCGAGGGGGGGGAG 28  
| | | | | | | | | |  
Db 2 GCGAGGGGGGGGAG 18

## RESULT 75

US-08-938-669A-16/c  
; Sequence 16, Application US/08938669A  
; Patent No. 6171788  
; GENERAL INFORMATION:  
; APPLICANT: Nguyen, Thai D.  
; APPLICANT: Polansky, Jon R.  
; TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS,  
; TITLE OF INVENTION: PROGNOSIS AND TREATMENT OF GLAUCOMA AND  
; TITLE OF INVENTION: RELATED DISEASES  
; NUMBER OF SEQUENCES: 32  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Howrey & Simon  
; STREET: 1299 Pennsylvania Avenue, N.W.  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20004-2402  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/938.669A  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/791,154  
; FILING DATE: 28-JAN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mendelson, Elliot  
; REGISTRATION NUMBER: P-42,878  
; REFERENCE/DOCKET NUMBER: 07425-0034  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202 383-6857  
; TELEFAX: 202 383-6610  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-938-669A-16

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 831 CTCACATATAGCCCTG 847  
| | | | | | | | | |  
Db 18 CCCACATATAGCCCTG 2

## RESULT 76

US-09-577-902-13  
; Sequence 13, Application US/09577902  
; Patent No. 6284538  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Lex M. Cowseert  
; APPLICANT: Robert McKay  
; TITLE OF INVENTION: ANTISENSE MODULATION OF PTEN EXPRESSION  
; FILE REFERENCE: ISPH-0463  
; CURRENT APPLICATION NUMBER: US/09/577,902  
; CURRENT FILING DATE: 2000-05-24  
; PRIOR APPLICATION NUMBER: US 09/358,381  
; PRIOR FILING DATE: 1999-07-21  
; PRIOR APPLICATION NUMBER: PCT/US99/29594,  
; PRIOR FILING DATE: 1999-12-14  
; NUMBER OF SEQ ID NOS: 51  
; SEQ ID NO 13  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-577-902-13

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 67;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 267 GCGGTGCGCGCCGCC 283  
| | | | | | | | | |  
Db 2 GGAGTGGCGCGCCGCC 18

## RESULT 77

US-09-577-902-13/c  
; Sequence 13, Application US/09577902  
; Patent No. 6284538  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Lex M. Cowseert  
; APPLICANT: Robert McKay  
; TITLE OF INVENTION: ANTISENSE MODULATION OF PTEN EXPRESSION  
; FILE REFERENCE: ISPH-0463  
; CURRENT APPLICATION NUMBER: US/09/577,902  
; CURRENT FILING DATE: 2000-05-24  
; PRIOR APPLICATION NUMBER: US 09/358,381  
; PRIOR FILING DATE: 1999-07-21  
; PRIOR APPLICATION NUMBER: PCT/US99/29594,  
; PRIOR FILING DATE: 1999-12-14  
; NUMBER OF SEQ ID NOS: 51  
; SEQ ID NO 13  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-577-902-13

```

RESULT 80
US-09-359-756-9
; Sequence 9, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-359-756-9

Query Match 1.4%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. NO. 92;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 43 AGCAGCGCGCGCGCGC 59
||| ||||| |||
DB 4 AGCGCGCGCGCGCTGC 20

RESULT 81
US-08-182-968A-321
; Sequence 321, Application US/08182968A
; Patent No. 5610054
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: INHIBITING HEPATITIS C
; TITLE OF INVENTION: VIRUS REPLICATION
; NUMBER OF SEQUENCES: 497
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; MEDIUM TYPE: 3.5"
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/182,968A
; FILING DATE: 13-JANUARY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/882,888
; FILING DATE: 14-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 205/277
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 321:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15
; TYPE: nucleic acid

```



```
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-182-968A-321

Query Match      1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 43;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 385 GCGCCCGCCGCGAG 399
Db 1 GCGCCCGCCGCGAG 15

RESULT 82
US-08-774-306A-321
; Sequence 321, Application US/08774306A
; Patent No. 5869253
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: INHIBITING HEPATITIS C
; TITLE OF INVENTION: VIRUS REPLICATION
; NUMBER OF SEQUENCES: 497
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/774,306A
; FILING DATE: December 26, 1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/182,968
; FILING DATE: January 13, 1994
; APPLICATION NUMBER: 07/882,888
; FILING DATE: May 14, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 223/227
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 321:
; LENGTH: 15
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-774-306A-321

Query Match      1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 43;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 385 GCGCCCGCCGCGAG 399
Db 1 GCGCCCGCCGCGAG 15

RESULT 83
US-08-863-639A-21
; Sequence 21, Application US/08863639A
```

```
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-21

Query Match      1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 43;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGCAGC 127
Db 1 GCGCGCGCGCGCAGC 15

RESULT 84
US-09-064-156A-321
; Sequence 321, Application US/09064156A
; Patent No. 6132966
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: INHIBITING HEPATITIS C
; TITLE OF INVENTION: VIRUS REPLICATION
; NUMBER OF SEQUENCES: 498
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
```

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;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/064,156A
; FILING DATE: April 21, 1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/774,306
; FILING DATE: December 26, 1996
; APPLICATION NUMBER: 08/182,968
; FILING DATE: January 13, 1994
; APPLICATION NUMBER: 07/882,888
; FILING DATE: May 14, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/083
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 321:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-064-156A-321

Query Match 1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 43;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 385 GCGCCCGCGCCGCGAG 399
Db 1 GCGCCCGCGCCGCGAG 15

RESULT 85
US-08-730-635-13
; Sequence 13, Application US/08730635
; Patent No. 6514693
; GENERAL INFORMATION:
; APPLICANT: Lansdorp, Peter
; TITLE OF INVENTION: Method for Detecting Multiple Copies of
; TITLE OF INVENTION: a Repeat Sequence in a Nucleic Acid Molecule
; Patent No. 6514693
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWSON & HOWSON
; STREET: 321 No. 6514693ristown Road
; CITY: Spring House
; STATE: PA
; COUNTRY: U.S.A.
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/730,635
; FILING DATE: 11-OCT-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: B&P7USA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 540-9200
; TELEFAX: (215) 540-5818
; TELEX: N/A
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid

;
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-730-635-13

Query Match 1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 43;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGCAGC 127
Db 1 GCGCGCGCGCGCAGC 15

RESULT 86
US-09-290-449-4
; Sequence 4, Application US/09290449A
; Patent No. 6096505
; GENERAL INFORMATION:
; APPLICANT: SELBY, Mark
; APPLICANT: THUDIUM, Kent
; APPLICANT: DINA, Dino
; TITLE OF INVENTION: NONCLONING TECHNIQUE FOR EXPRESSING A GENE OF INTEREST
; FILE REFERENCE: 1448.002
; CURRENT APPLICATION NUMBER: US/09/290,449A
; CURRENT FILING DATE: 1999-04-13
; EARLIER APPLICATION NUMBER: US 60/081,777
; EARLIER FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: mutant neo
; OTHER INFORMATION: primer 93
; US-09-290-449-4

Query Match 1.3%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 54;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 460 TTGCACAAAGATGGAT 474
Db 1 TTGCACAAAGATGGAT 15

RESULT 87
US-08-626-023-1/c
; Sequence 1, Application US/08626023
; Patent No. 5955266
; GENERAL INFORMATION:
; APPLICANT: Bray, Paul F.
; APPLICANT: Goldschmidt-Clermont, Pascal
; APPLICANT: J.
; TITLE OF INVENTION: USE OF PLATELET POLYMORPHISM P1A2 TO
; TITLE OF INVENTION: DIAGNOSE RISK OF THROMBOTIC DISEASE
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: California
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/626,023
; FILING DATE: 11-OCT-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: B&P7USA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 540-9200
; TELEFAX: (215) 540-5818
; TELEX: N/A
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
```

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/ FILING DATE: 01-APR-1996
/ CLASSIFICATION: 536
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Haile Ph.D., Lisa A.,
/ REGISTRATION NUMBER: 38,347
/ REFERENCE/DOCKET NUMBER: 07265/087001
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 619/678-5070
/ TELEFAX: 619/678-5099
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 17 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 1..17
/ US-08-626-023-1

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 66;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GAGCCCTGAGGCAGG 17
Db 15 GAGCCCGAGGCAGG 1

RESULT 88
US-08-626-023-3
; Sequence 3, Application US/08626023
; Patent No. 5955266
; GENERAL INFORMATION:
; APPLICANT: Bray, Paul F.
; APPLICANT: Goldschmidt-Clermont, Pascal
; APPLICANT: J.
; TITLE OF INVENTION: USE OF PLATELET POLYMORPHISM PLI2 TO
; TITLE OF INVENTION: DIAGNOSE RISK OF THROMBOTIC DISEASE
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: California
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/626,023
; FILING DATE: 01-APR-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile Ph.D., Lisa A.,
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/087001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
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/ LOCATION: 1..17
/ US-08-626-023-3

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 66;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GAGCCCTGAGGCAGG 17
Db 3 GAGCCCGAGGCAGG 17

RESULT 89
US-09-474-432B-312/c
; Sequence 312, Application US/09474432B
; Patent No. 6528640
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Burgin, Alex
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka
; APPLICANT: Sweedler, David
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleotids
; FILE REFERENCE: MBH00-831-B (247/276)
; CURRENT APPLICATION NUMBER: US/09/474,432B
; CURRENT FILING DATE: 1999-12-19
; PRIOR APPLICATION NUMBER: US 60/064,866
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/084,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: US 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: US 09/301,511
; PRIOR FILING DATE: 1999-04-28
; NUMBER OF SEQ ID NOS: 1526
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 312
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-474-432B-312

Query Match 1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 66;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 49 GCGCGCGCGGCTGCC 63
Db 16 GCGCGCGCGGCTGCC 2

RESULT 90
US-09-371-772B-5503/c
; Sequence 5503, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Favco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00.876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
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; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 5503  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-371-772B-5503

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 66;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 444 AGAAACTCTCAAGG 458  
Db 17 AGAAACTCTGAAGG 3  
|||||

RESULT 91  
US-09-476-387-311/c  
; Sequence 311, Application US/09476387  
; Patent No. 6617438  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Beigelman, Leo  
; APPLICANT: Beaudry, Amber  
; APPLICANT: Karpeisky, Alex  
; APPLICANT: Adamic, Jasenka Matulic  
; APPLICANT: Sweedler, Dave  
; APPLICANT: Zinnen, Shawn

; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot  
; FILE REFERENCE: MEHB00-831-C (249/073)  
; CURRENT APPLICATION NUMBER: US/09/476,387  
; CURRENT FILING DATE: 2001-04-04  
; PRIOR FILING DATE: 1999-12-29  
; PRIOR FILING DATE: 1999-04-28  
; PRIOR FILING DATE: 1999-04-28  
; PRIOR FILING DATE: 1998-11-04  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR FILING DATE: 1997-11-05  
; NUMBER OF SEQ ID NOS: 1524  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 311  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-476-387-311

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 66;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 49 GCGCGCGCGCTGCC 63  
Db 16 GCGCGCGCGCTGCC 2  
|||||

RESULT 92  
US-09-866-108A-2497  
; Sequence 2497, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 2497  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-2497

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 66;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 814 CCTTACCAGATGCC 828  
Db 3 CCTGCACCATGCC 17  
|||||

RESULT 93  
US-09-866-108A-2498  
; Sequence 2498, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665

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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 2498
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-2498

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 66;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      814 CCTTCACCAGATGC 828
Db      2 CCTGCACCAGATGC 16

RESULT 94
US-09-866-108A-2499
; Sequence 2499, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 2499
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-2499

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 66;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      814 CCTTCACCAGATGC 828
Db      2 CCTGCACCAGATGC 16

RESULT 95
US-09-866-108A-8123
; Sequence 8123, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 8123
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8123

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 66;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      661 GCGGCTTCACGACT 675
Db      3 GCGGCTTCACGACT 17

RESULT 96
US-09-866-108A-8124
; Sequence 8124, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
```

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeonica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8124  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8124

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 66;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGGCTTCACGCT 675  
Db 2 GCGGCTTCACGCT 16

RESULT 97  
US-09-866-108A-8125  
; Sequence 8125, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeonica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8125  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8125

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 77;

; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeonica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8125  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8125

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 66;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGGCTTCACGCT 675  
Db 1 GCGGCTTCACGCT 15

RESULT 98  
US-09-866-108A-8640  
; Sequence 8640, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeonica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8640  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8640

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 977 AGAAGTCAGCTG 989  
|||||  
Db 5 AGAAGTCAGCTG 17

## RESULT 99

US-09-866-108A-8641  
; Sequence 8641, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866.108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8641  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8641

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 77;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 977 AGAAGTCAGCTG 989  
|||||  
Db 4 AGAAGTCAGCTG 16

## RESULT 100

US-09-866-108A-8642  
; Sequence 8642, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866.108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeomica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 8642  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-8642

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 77;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 977 AGAAGTCAGCTG 989  
|||||  
Db 3 AGAAGTCAGCTG 15

## RESULT 101

US-09-866-108A-8643  
; Sequence 8643, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866.108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669

;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00665  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00668  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00663  
;; PRIOR FILING DATE: 2001-01-30  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 15755  
;; SOFTWARE: Aeomica Sequence Listing Engine  
;; Patent No. 6686188  
;; SEQ ID NO 8643  
;; LENGTH: 17  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-866-108A-8643

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 77;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 977 AGAAGTCGACGCTG 989  
Db 2 AGAAGTCGACGCTG 14

RESULT 102  
US-09-866-108A-8644  
;; Sequence 8644, Application US/09866108A  
;; Patent No. 6686188  
;; GENERAL INFORMATION:  
;; APPLICANT: GU, Yizhong  
;; APPLICANT: JI, Yonggang  
;; APPLICANT: PENN, Sharron G.  
;; APPLICANT: HANZEL, David K.  
;; APPLICANT: RANK, David R.  
;; APPLICANT: CHEN, Wensheng  
;; APPLICANT: SHANNON, Mark  
;; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
;; FILE REFERENCE: AEOMICA-7  
;; CURRENT APPLICATION NUMBER: US/09/866,108A  
;; CURRENT FILING DATE: 2001-05-25  
;; PRIOR APPLICATION NUMBER: US 60/207,456  
;; PRIOR FILING DATE: 2000-05-26  
;; PRIOR APPLICATION NUMBER: GB 24263.6  
;; PRIOR FILING DATE: 2000-10-04  
;; PRIOR APPLICATION NUMBER: US 60/236,359  
;; PRIOR FILING DATE: 2000-09-27  
;; PRIOR APPLICATION NUMBER: PCT/US01/00666  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00667  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00664  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00669  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00665  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00668  
;; PRIOR FILING DATE: 2001-01-30  
;; PRIOR APPLICATION NUMBER: PCT/US01/00663  
;; PRIOR FILING DATE: 2001-01-30  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 15755  
;; SOFTWARE: Aeomica Sequence Listing Engine  
;; Patent No. 6686188  
;; SEQ ID NO 8644  
;; LENGTH: 17  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-866-108A-8644

Query Match 1.3%; Score 13; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 77;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 977 AGAAGTCGACGCTG 989  
Db 1 AGAAGTCGACGCTG 13

RESULT 103  
US-08-753-147-164/C  
;; Sequence 164, Application US/08753147  
;; Patent No. 5770372  
;; GENERAL INFORMATION:  
;; APPLICANT: Concannon, Patrick  
;; TITLE OF INVENTION: Detection of Mutations in the Human ATM Gene  
;; NUMBER OF SEQUENCES: 196  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Christensen O'Connor Johnson and Kindness  
;; STREET: 1420 5th Avenue  
;; CITY: Seattle  
;; STATE: Washington  
;; COUNTRY: USA  
;; ZIP: 98101-2347  
;; COMPUTER READABLE FORM: disk  
;; MEDIUM TYPE: Floppy disk  
;; OPERATING SYSTEM: IBM PC compatible  
;; SOFTWARE: PatentIn Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/753,147  
;; FILING DATE:  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Sheiness, Diana K.  
;; REGISTRATION NUMBER: 35,356  
;; REFERENCE/DOCKET NUMBER: VMRC-1-9714  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (206) 743-4387  
;; TELEFAX: (206) 224 0779  
;; INFORMATION FOR SEQ ID NO: 164:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 16 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: double  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: DNA (genomic)  
;; HYPOTHEICAL: NO  
;; ANTI-SENSE: NO  
;; ORIGINAL SOURCE:  
;; ORGANISM: Homo sapiens  
US-08-753-147-164

Query Match 1.3%; Score 12.8; DB 1; Length 16;  
Best Local Similarity 87.5%; Pred. No. 69;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 605 ATGATCTGAAATGAA 620  
Db 16 AGGAGCTGAATGAA 1

RESULT 104  
US-09-593-012-161  
;; Sequence 161, Application US/09593012  
;; Patent No. 6387652  
;; GENERAL INFORMATION:  
;; APPLICANT: HAUGLAND, Richard  
;; APPLICANT: VESPER, Stephen  
;; TITLE OF INVENTION: METHOD OF IDENTIFYING AND QUANTIFYING SPECIFIC FUNGI AND BACTERIA  
;; FILE REFERENCE: HAUGLAND=1A  
;; CURRENT APPLICATION NUMBER: US/09/593,012  
;; CURRENT FILING DATE: 2000-06-13  
;; PRIOR APPLICATION NUMBER: US 09/290,990



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; PRIOR FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: US 60/081,773
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 161
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Penicillium simplicissimum/ochrochloron
US-09-593-012-161

Query Match      1.3%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 69;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      185 CCGCCTCACGCCGCC 200
Db      1 CCGCCTCACGCCGCC 16

RESULT 105
US-09-371-772B-5828
; Sequence 5828; Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MHB00.876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5828
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5828

Query Match      1.3%; Score 12.8; DB 1; Length 16;
Best Local Similarity 62.5%; Pred. No. 69;
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      566 GAGGGCTGTGGTGGT 581
Db      1 GAGGGCCUCUGAUGGU 16

RESULT 106
US-09-479-005A-1
; Sequence 1, Application US/09479005A
; Patent No. 6656731
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity
; FILE REFERENCE: MHB00-884-C
; CURRENT APPLICATION NUMBER: US/09/479,005A
; CURRENT FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: US 09/444,209
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: US 09/159,274
; PRIOR FILING DATE: 1998-09-22
; PRIOR APPLICATION NUMBER: US 60/059,473
; PRIOR FILING DATE: 1997-09-22
; NUMBER OF SEQ ID NOS: 1208
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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-479-005A-1

Query Match      1.3%; Score 12.8; DB 1; Length 16;
Best Local Similarity 87.5%; Pred. No. 69;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      116 GCGCGCGCGCAGTCGC 131
Db      1 GCGCGCGCGCGCGCGC 16

RESULT 107
US-08-250-740-11/c
; Sequence 11, Application US/08250740
; Patent No. 5686240
; GENERAL INFORMATION:
; APPLICANT: Schuchman, Edward H.
; APPLICANT: Desnick, Robert J.
; TITLE OF INVENTION: Acid Sphingomyelinase Gene and Diagnosis
; TITLE OF INVENTION: of Niemann-Pick Disease
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/250,740
; FILING DATE: 27-MAY-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30742
; REFERENCE/DOCKET NUMBER: 6923-038
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-250-740-11

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      714 ATCAGTGCACAGTCG 729
Db      17 ATCAGTGCACAGAG 2

RESULT 108
US-07-695-472B-21/c
; Sequence 21, Application US/07695472B
; Patent No. 5773278
; GENERAL INFORMATION:
```

APPLICANT: Schuchman, Edward H.  
APPLICANT: Desnick, Robert J.  
TITLE OF INVENTION: The Acid Sphingomyelinase Gene and  
TITLE OF INVENTION: Diagnosis of Niemann-Pick Disease  
NUMBER OF SEQUENCES: 36  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/695,472B  
FILING DATE: 19910503  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Misrock, S. Leslie  
REGISTRATION NUMBER: 18,872  
REFERENCE/DOCKET NUMBER: 6923-014  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 7908664/9741  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: DNA  
US-07-695-472B-21

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. No. 84;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 714 ATCAGTGCACAGTG 729  
Db 17 ATCAGTGCACAGAG 2

RESULT 109  
US-08-584-040-1925  
Sequence 1925, Application US/08584040  
Patent No. 6346398  
GENERAL INFORMATION:  
APPLICANT: Pavco, Pamela  
APPLICANT: McSwiggen, James  
APPLICANT: Stinchcomb, Dan T.  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: TREATMENT OF DISEASES OR  
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
TITLE OF INVENTION: GROWTH FACTOR  
NUMBER OF SEQUENCES: 8502  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/584,040  
FILING DATE: January 11, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/005,974  
FILING DATE: October 26, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 218/064  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1925:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-584-040-1925

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 62.5%; Pred. No. 84;  
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 566 GAGGGCCTGTGTGGT 581  
Db 1 GAGGGCCUCUGAUGGU 16

RESULT 110  
US-08-584-040-4327  
Sequence 4327, Application US/08584040  
Patent No. 6346398  
GENERAL INFORMATION:  
APPLICANT: Pavco, Pamela  
APPLICANT: McSwiggen, James  
APPLICANT: Stinchcomb, Dan T.  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: TREATMENT OF DISEASES OR  
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
TITLE OF INVENTION: GROWTH FACTOR  
NUMBER OF SEQUENCES: 8502  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/584,040  
FILING DATE: January 11, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/005,974  
FILING DATE: October 26, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.

```

; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 4327:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-584-040-4327
;
Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 580 GTAAACCAATCCAG 595
Db 1 GURAAAGUAUCCAG 16
;
;
RESULT 111
US-08-584-040-5867
; Sequence 5867, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5867:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-584-040-4327
;
Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 580 GTAAACCAATCCAG 595
Db 1 GURAAAGUAUCCAG 16
;
;
RESULT 112
US-08-584-040-7609
; Sequence 7609, Application US/08584040
; Patent No. 6346398
; GENERAL INFORMATION:
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: TREATMENT OF DISEASES OR
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
; TITLE OF INVENTION: GROWTH FACTOR
; NUMBER OF SEQUENCES: 8502
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/584,040
; FILING DATE: January 11, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,974
; FILING DATE: October 26, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/064
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7609:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-584-040-7609
;
Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 62.5%; Pred. No. 84;
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 566 GAGGGCCTGTGTGGT 581
Db 1 GAGGGCCUCUGAGGU 16
;
;
RESULT 113
```

```
US-08-679-645-210/c
; Sequence 210, Application US/08679645
; Patent No. 6350934
; GENERAL INFORMATION:
; APPLICANT: Zwick, Michael G.
; APPLICANT: Edington, Brent E.
; APPLICANT: McSwiggen, James A.
; APPLICANT: Merlo, Patricia Ann Owens
; APPLICANT: Guo, Lining
; APPLICANT: Skokut, Thomas A.
; APPLICANT: Young, Scott A.
; APPLICANT: Folkerts, Otto
; APPLICANT: Merlo, Donald J.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR
; TITLE OF INVENTION: MODULATION OF GENE EXPRESSION
; NUMBER OF SEQUENCES: 1263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; CITY: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/679,645
; FILING DATE: July 12, 1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/001,135
; FILING DATE: July 13, 1995
; APPLICATION NUMBER: 08/300,726
; FILING DATE: September 2, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 219/247
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 210:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-679-645-210

Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 640 CCAGGAGAGGTCCTGG 655
Db 17 CCAGGAGAGATCCTGG 2

RESULT 114
US-08-679-645-212/c
; Sequence 212, Application US/08679645
; Patent No. 6350934
; GENERAL INFORMATION:
; APPLICANT: Zwick, Michael G.
; APPLICANT: Edington, Brent E.
; APPLICANT: McSwiggen, James A.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR
; TITLE OF INVENTION: MODULATION OF GENE EXPRESSION
; NUMBER OF SEQUENCES: 1263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; CITY: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/679,645
; FILING DATE: July 12, 1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/001,135
; FILING DATE: July 13, 1995
; APPLICATION NUMBER: 08/300,726
; FILING DATE: September 2, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 219/247
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 212:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-679-645-212

Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 639 TCCAGGAGAGGTCCTGG 654
Db 16 TCCAGGAGAGATCCTG 1

RESULT 115
US-08-679-645-803
; Sequence 803, Application US/08679645
; Patent No. 6350934
; GENERAL INFORMATION:
; APPLICANT: Zwick, Michael G.
; APPLICANT: Edington, Brent E.
; APPLICANT: McSwiggen, James A.
; APPLICANT: Merlo, Patricia Ann Owens
; APPLICANT: Guo, Lining
; APPLICANT: Skokut, Thomas A.
; APPLICANT: Young, Scott A.
; APPLICANT: Folkerts, Otto
; APPLICANT: Merlo, Donald J.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR
```



; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: unknown  
; MOLECULE TYPE: DNA  
US-09-106-375-21

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. No. 84;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 714 ATCAGTGCACAGTG 729  
||||| |||||  
Db 17 ATCAGTGCACAGAG 2

RESULT 122  
US-09-371-772B-470  
; Sequence 470, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyne Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MEHB00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 470  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-371-772B-470

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 62.5%; Pred. No. 84;  
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
  
QY 566 GAGGGCGCTGTGGTGGT 581  
||||| :|||  
Db 1 GAGGGCCUCUGAUGGU 16

RESULT 123  
US-09-371-772B-2094  
; Sequence 2094, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyne Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MEHB00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225

; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2094  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-371-772B-2094

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 75.0%; Pred. No. 84;  
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
  
QY 580 GTRAAACCAATCCAG 595  
|:||||| :|||  
Db 1 GUAAAAGUAAUCCAG 16

RESULT 124  
US-09-371-772B-2720  
; Sequence 2720, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyne Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MEHB00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2720  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Mus sp.  
US-09-371-772B-2720

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 56.2%; Pred. No. 84;  
Matches 9; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
  
QY 921 TTTCCTGATTGGAGGA 936  
::||| :|||  
Db 1 UUUCCUGUAUGGAGGA 16

RESULT 125  
US-09-371-772B-4761  
; Sequence 4761, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyne Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MEHB00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225  
; SOFTWARE: PatentIn version 3.0

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; SEQ ID NO 4761
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-371-772B-4761

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 62.5%; Pred. No. 84;
Matches 10; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 566 GAGGCGCTGTGGTGT 581
Db 2 GAGGGCCUCUGAUGGU 17

RESULT 126
US-09-371-772B-6336
; Sequence 6336, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR FILING DATE: 1995-10-26
; PRIOR FILING DATE: 1995-10-26
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6336
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-371-772B-6336

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 84;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 585 ACCAATCCCGATTAA 600
Db 2 ACCAAUCCCAUUCAA 17

RESULT 127
US-09-371-772B-6337
; Sequence 6337, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR FILING DATE: 1995-10-26
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6337
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```
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-371-772B-6337

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 68.8%; Pred. No. 84;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 585 ACCAATCCCGATTAA 600
Db 1 ACCAAUCCCAUUCAA 16

RESULT 128
US-08-325-955-1
; Sequence 1, Application US/08325955
; Patent No. 6610299
; GENERAL INFORMATION:
; APPLICANT: Seeman, Gerhard
; APPLICANT: Bosslet, Klaus
; APPLICANT: Czesch, Joerg
; APPLICANT: Kolar, Cenek
; APPLICANT: Hoffmann, Dieter
; APPLICANT: Sedlacek, Hans-Harald
; TITLE OF INVENTION: Glycosyl-Etoposide Prodrugs, A Process For
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESS: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/325,955
; FILING DATE: 19-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ogden, Stasia L.
; REGISTRATION NUMBER: 36,228
; REFERENCE/DOCKET NUMBER: 05552.0981-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-325-955-1

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 17 GCGGCGCGCGGAGGAGC 32
Db 1 GCGGCGCGCGCGGAGGAGC 16

RESULT 129
US-09-476-387-735/c
; Sequence 735, Application US/09476387
; Patent No. 6617438
```



```

; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleotides
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 735
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-476-387-735

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      662 CGGCTTCACCAAGCTTC 677
DB      17 CGGCTTCACCAAGCTTC 2

RESULT 130
US-09-476-387-788/c
; Sequence 788, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleotides
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 788
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-476-387-788

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      662 CGGCTTCACCAAGCTTC 677
DB      17 CGGCTTCACCAAGCTTC 2

US-09-476-387-788/c
; Sequence 788, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleotides
; FILE REFERENCE: MBH00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 788
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-09-476-387-788

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```

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      168 GCAGCGCTCTTCCTT 183
DB      16 GCAGCGCTCTTCCTT 1

RESULT 131
US-09-827-998-76
; Sequence 76, Application US/09827998
; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMF-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 76
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-827-998-76

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      505 AACTGAAGGCAACCT 520
DB      2 AACTGAAGGCAACAT 17

RESULT 132
US-09-827-998-77
; Sequence 77, Application US/09827998
; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMF-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 77
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-827-998-77

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      505 AACTGAAGGCAACCT 520
DB      1 AACTGAAGGCAACAT 16

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## RESULT 133

US-09-827-998-136/c

; Sequence 136, Application US/09827998

; Patent No. 6656700

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E

; FILE REFERENCE: AEOICA-7

; CURRENT APPLICATION NUMBER: US/09/827,998

; CURRENT FILING DATE: 2001-04-06

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; NUMBER OF SEQ ID NOS: 1881

; SOFTWARE: Aeoica Sequence Listing Engine

; Patent No. 6656700

; SEQ ID NO 136

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-827-998-136

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. No. 84;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 816 TTCACGAGTGGCTTC 831

DB 17 TTCTCCAGATGCTTC 2

## RESULT 134

US-09-827-998-137/c

; Sequence 137, Application US/09827998

; Patent No. 6656700

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E

; FILE REFERENCE: MDHMORF-8

; CURRENT APPLICATION NUMBER: US/09/827,998

; CURRENT FILING DATE: 2001-04-06

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; NUMBER OF SEQ ID NOS: 1881

; SOFTWARE: Aeoica Sequence Listing Engine

; Patent No. 6656700

; SEQ ID NO 137

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-827-998-137

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. No. 84;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 816 TTCACGAGTGGCTTC 831

DB 16 TTCTCCAGATGCTTC 1

## RESULT 135

US-09-866-108A-1547/c

; Sequence 1547, Application US/09866108A

; Patent No. 6686188

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aeoica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 1547  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-1547

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. No. 84;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 629 CAGCTGAGTCTCCAGG 644

DB 17 CAGCTGAGTCTCCAGG 2

## RESULT 136

US-09-866-108A-1548/c

; Sequence 1548, Application US/09866108A

; Patent No. 6686188

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: JI, Yonggang

; APPLICANT: PENN, Sharron G.

; APPLICANT: HANZEL, David K.

; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108A  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666

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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1548
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1548

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      629  CAGCTGAGTCTCCAGG 644
Db      16  CAGCTGTGTCTCCAGG 1

RESULT 137
US-09-866-108A-6302/c
; Sequence 6302, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6302

QY      629  CAGCTGAGTCTCCAGG 644
Db      16  CAGCTGTGTCTCCAGG 1

RESULT 137
US-09-866-108A-6302/c
; Sequence 6302, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6302
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; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6302

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      26  GAGGAGCCCTCAAGG 41
Db      17  GAGTGCCCTCCAGG 2

RESULT 138
US-09-866-108A-6304/c
; Sequence 6304, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6304
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6304

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      25  GGAGGAGCCCTCAAGG 40
Db      16  GGAGTGCCCTCCAGG 1

RESULT 139
US-09-866-108A-6376/c
; Sequence 6376, Application US/09866108A
; Patent No. 6686188
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```
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6376
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-6376

Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 181 CTTGCCGCCTCACGC 196
Db 17 CTTTCTCTCTCACGC 2

RESULT 140
US-09-866-108A-6377/c
; Sequence 6377, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6376
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-6376

Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 181 CTTGCCGCCTCACGC 196
Db 17 CTTTCTCTCTCACGC 2

RESULT 140
US-09-866-108A-6377/c
; Sequence 6377, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6376
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-6376

Query Match 1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 181 CTTGCCGCCTCACGC 196
Db 16 CTTTCTCTCTCACGC 1

RESULT 141
US-09-866-108A-8004/c
; Sequence 8004, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
```

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; SEQ ID NO 8004
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8004

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 148 GAGCTGGACCAAGCTGC 163
Db 17 GAGCTGCTCCAGCTGC 2

RESULT 142
US-09-866-108A-8006/C
; Sequence 8006, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 8006
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8006

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 147 GGAGCTGCTCCAGCTG 162
Db 16 GGAGCTGCTCCAGCTG 1

RESULT 143
US-09-866-108A-9603
; Sequence 9603, Application US/09866108A
```

```
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9603
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9603

Query Match      1.3%; Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 405 TCCTGAGCGGCCCCC 420
Db 2 TCCTGAGCGGCCCCC 17

RESULT 144
US-09-866-108A-9604
; Sequence 9604, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
```

```
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9604
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9604

Query Match      1.3%   Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 405 TCCTGCAGCGGCCCC 420
      |||||
Db. 1 TCCTTCAGCGGCCCTC 16

RESULT 145
US-09-866-108A-9943
; Sequence 9943, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9604
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9604

Query Match      1.3%   Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 405 TCCTGCAGCGGCCCC 420
      |||||
Db. 1 TCCTTCAGCGGCCCTC 16

RESULT 145
US-09-866-108A-9943
; Sequence 9943, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9604
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9604
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```
; Patent No. 6686188
; SEQ ID NO 9943
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9943

Query Match      1.3%   Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 365 CCGAGCCCGGGAGAA 380
      |||||
Db. 2 CCGAGCATGGGAGAA 17

RESULT 146
US-09-866-108A-9944
; Sequence 9944, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9944
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-9944

Query Match      1.3%   Score 12.8; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 365 CCGAGCCCGGGAGAA 380
      |||||
Db. 1 CCGAGCATGGGAGAA 16

RESULT 147
US-08-465-485A-28/c
```

; Sequence 28, Application US/08465485A  
; Patent No. 5831066  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 1755 S. Jefferson Davis Hwy., Suite 400  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/465,485A  
; FILING DATE: 05-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/124,256  
; FILING DATE: 20-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/840,716  
; FILING DATE: 21-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/288,692  
; FILING DATE: 22-DEC-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fortney, Andrew D.  
; REGISTRATION NUMBER: 34,600  
; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (408) 436-2070  
; TELEFAX: (408) 436-2075  
; INFORMATION FOR SEQ ID NO: 28:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid;  
; DESCRIPTION: Synthetic DNA  
; ANTI-SENSE: YES  
; FEATURE:  
; NAME/KEY: Modified\_base  
; LOCATION: 18..19  
; OTHER INFORMATION: Last two internucleoside linkages are  
; OTHER INFORMATION: phosphorothioates  
US-08-465-485A-28

Query Match 1.3%; Score 12.8; DB 1; Length 20;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 GCGGTGCCCGCCGCC 283  
Db 20 GCGGTGCCCGCCGCC 5

RESULT 148  
US-09-080-285-28/c  
; Sequence 28, Application US/09080285  
; Patent No. 6040181  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: Regulation of bcl-2 Gene Expression  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,  
; ADDRESSEE: P.C.  
; STREET: 1755 S. Jefferson Davis Hwy., Suite 400  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/080,285  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/465,485  
; FILING DATE: 05-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/124,256  
; FILING DATE: 20-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/840,716  
; FILING DATE: 21-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/288,692  
; FILING DATE: 22-DEC-1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fortney, Andrew D.  
; REGISTRATION NUMBER: 34,600  
; REFERENCE/DOCKET NUMBER: 3335-070-55 CONT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (408) 436-2070  
; TELEFAX: (408) 436-2075  
; INFORMATION FOR SEQ ID NO: 28:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid;  
; DESCRIPTION: Synthetic DNA  
; ANTI-SENSE: YES  
; FEATURE:  
; NAME/KEY: Modified\_base  
; LOCATION: 18..19  
; OTHER INFORMATION: Last two internucleoside linkages are  
; OTHER INFORMATION: phosphorothioates  
US-09-080-285-28

Query Match 1.3%; Score 12.8; DB 1; Length 20;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 GCGGTGCCCGCCGCC 283  
Db 20 GCGGTGCCCGCCGCC 5

RESULT 149  
US-09-724-426-28/c  
; Sequence 28, Application US/09724426  
; Patent No. 6414134  
; GENERAL INFORMATION:  
; APPLICANT: Reed, John  
; TITLE OF INVENTION: Regulation of BCL-2 Gene Expression  
; FILE REFERENCE: 10412-024  
; CURRENT APPLICATION NUMBER: US/09/724,426  
; CURRENT FILING DATE: 2000-11-28  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 28

; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-724-426-28

Query Match 1.3%; Score 12.8; DB 1; Length 20;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 268 GCGTGCGCGCGCC 283  
Db 20 GCGTGCGCGCGCGC 5

## RESULT 150

US-08-914-961-2  
; Sequence 2, Application US/08914961  
; Patent No. 6018042  
; GENERAL INFORMATION:  
; APPLICANT: Mett, Helmut  
; APPLICANT: Haner, Robert  
; APPLICANT: Dean, Nicholas Mark  
; TITLE OF INVENTION: Anticumor Antisense Oligonucleotides  
; NUMBER OF SEQUENCES: 16  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CIBA-GEIGY Corporation  
; STREET: 7 Skyline Drive  
; CITY: Hawthorne  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10532  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII Editor  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/914,961  
; FILING DATE: 20-AUG-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/287,753  
; FILING DATE: 09-AUG-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Spruill, W. Murray  
; REGISTRATION NUMBER: 32,943  
; REFERENCE/DOCKET NUMBER: 4-20047/P1  
; TELEPHONE: (919) 541-8615  
; TELEFAX: (919) 541-8689  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; ANTI-SENSE: YES  
; POSITION IN GENOME:  
; MAP POSITION: -80  
; UNITS: bp  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1..20  
; OTHER INFORMATION: /note= "All nucleotides are of the  
; OTHER INFORMATION: phosphorothioate type"  
US-08-914-961-2

Query Match 1.3%; Score 12.6; DB 1; Length 20;  
Best Local Similarity 78.9%; Pred. No. 1.4e+02;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 406 CCTGCAGCGCGCCCGC 424

Db 1 CCGCGCGCTGCGCGCGCGC 19

## RESULT 151

US-08-244-188-1/c  
; Sequence 1, Application US/08244188  
; Patent No. 5597713  
; GENERAL INFORMATION:  
; APPLICANT: Kato, Seishi  
; APPLICANT: Sekine, Shingo  
; TITLE OF INVENTION: Process For Producing cDNAs With  
; TITLE OF INVENTION: Complete Lengths, Process For Producing Intermediates  
; TITLE OF INVENTION: Thereof And Process For Producing Vectors Containing  
; TITLE OF INVENTION: cDNAs With Complete Lengths  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
; STREET: 8110 Gatehouse Road, Suite 500 East  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22042  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,188  
; FILING DATE: 25-JUL-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 760-184P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 205-8000  
; TELEFAX: (703) 205-8050  
; TELEX: 248345  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 14 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "Chimeric DNA-RNA  
; DESCRIPTION: oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: NO  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 12..14  
; OTHER INFORMATION: /note= "GGA at positions 12-14 are  
; OTHER INFORMATION: ribonucleotides"  
US-08-244-188-1

Query Match 1.2%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 53;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 202 TCCTCGACTTCCCC 215

Db 14 TCCTCGAATTCCTCC 1

## RESULT 152

US-08-244-188-2/c  
; Sequence 2, Application US/08244188  
; Patent No. 5597713  
; GENERAL INFORMATION:  
; APPLICANT: Kato, Seishi



; APPLICANT: Sekine, Shingo  
; TITLE OF INVENTION: Process For Producing cDNAs With  
; COMPLETE LENGTHS, Process For Producing Intermediates  
; TITLE OF INVENTION: Thereof And Process For Producing Vectors Containing  
; TITLE OF INVENTION: cDNAs With Complete Lengths  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
; STREET: 8110 Gatehouse Road, Suite 500 East  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22042  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,189  
; FILING DATE: 25-JUL-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 760-184P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 205-8000  
; TELEFAX: (703) 205-8050  
; TELEX: 248345  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 14 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "Synthetic DNA  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
; US-08-244-188-2

Query Match 1.2%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 53;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 202 TCCTCGACTTCCCC 215  
Db 14 TCCTCGAATTCGCC 1

RESULT 153  
US-08-393-734-6  
; Sequence 6, Application US/08393734  
; Patent No. 5652224  
; GENERAL INFORMATION:  
; APPLICANT: Wilson, James M.  
; APPLICANT: Kozarsky, Karen F.  
; TITLE OF INVENTION: Methods and Compositions for Gene  
; TITLE OF INVENTION: Therapy for the Treatment of Defects in Lipoprotein  
; TITLE OF INVENTION: Metabolism  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Howson and Howson  
; STREET: Spring House Corporate Cntr., PO Box 457  
; CITY: Spring House  
; STATE: Pennsylvania  
; COUNTRY: USA  
; ZIP: 19477  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/393,734  
; FILING DATE:  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bak, Mary E.  
; REGISTRATION NUMBER: 31,215  
; REFERENCE/DOCKET NUMBER: UPNH1254USA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-540-9200  
; TELEFAX: 215-540-5818  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 14 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: unknown  
; MOLECULE TYPE: DNA (genomic)  
; US-08-393-734-6

Query Match 1.2%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 53;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 726 AGTGAATCAGAAT 739  
Db 1 AGTGAATCTGAAT 14

RESULT 154  
US-08-836-022A-6  
; Sequence 6, Application US/08836022A  
; Patent No. 6001557  
; GENERAL INFORMATION:  
; APPLICANT: Trustees of the University of Pennsylvania  
; APPLICANT: Wilson, James M.  
; APPLICANT: Fisher, Krishna J.  
; APPLICANT: Chen, Shu-Jen  
; APPLICANT: Weltzman, Matthew  
; TITLE OF INVENTION: Improved Adenovirus Virus and  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Howson and Howson  
; STREET: Spring House Corporate Cntr, P O Box 457  
; CITY: Spring House  
; STATE: Pennsylvania  
; COUNTRY: USA  
; ZIP: 19477  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/836,022A  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/331,381  
; FILING DATE: 28-OCT-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bak, Mary E.  
; REGISTRATION NUMBER: 31,215  
; REFERENCE/DOCKET NUMBER: GNVEN.008PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-540-9200  
; TELEFAX: 215-540-5818  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 14 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
US-08-836-022A-6

Query Match      1.2%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      726 AGTGAATCAGAAAT 739
Db      1 AGTGAATCTGAAT 14

RESULT 155
US-08-894-489-6
; Sequence 6, Application US/08894489
; Patent No. 6174527
; GENERAL INFORMATION:
; APPLICANT: Wilson, James M.
; APPLICANT: Kozarsky, Karen F.
; APPLICANT: Straus, Jerome F.
; TITLE OF INVENTION: Methods and Compositions for Gene
; TITLE OF INVENTION: Therapy for the Treatment of Defects in Lipoprotein
; TITLE OF INVENTION: Metabolism
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr., PO Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/894,489
; FILING DATE: 24-FEB-1995
; PRIORITY APPLICATION DATA:
; PRIORITY NUMBER: 514
; CLASSIFICATION: 514
; APPLICATION NUMBER: US 08/393,734
; FILING DATE: 24-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVFN.009CIP1USA
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
US-08-894-489-6

Query Match      1.2%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      726 AGTGAATCAGAAAT 739
Db      1 AGTGAATCTGAAT 14

RESULT 156
US-09-427-048A-6
; Sequence 6, Application US/09427048A
; Patent No. 6203975
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weltzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; TITLE OF INVENTION: Methods of Use Thereof
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/427,048A
; FILING DATE: 21-Oct-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,022
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVFN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-427-048A-6

Query Match      1.2%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 53;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      726 AGTGAATCAGAAAT 739
Db      1 AGTGAATCTGAAT 14

RESULT 157
US-08-872-056-8/c
; Sequence 8, Application US/08872056
; Patent No. 6231863
; GENERAL INFORMATION:
; APPLICANT: COLAU, DIDIER
; APPLICANT: ROOS, JOEL
; TITLE OF INVENTION: RECOMBINANT DNA SEQUENCES, MOLECULES,
; TITLE OF INVENTION: VECTORS AND VACCINES FOR FELINE CALICIVIRUS DISEASE AND
; TITLE OF INVENTION: METHODS FOR PRODUCING AND USING SAME
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MCDERMOTT, WILL & EMERY
; STREET: 1850 K STREET, N.W., SUITE 500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
```

ZIP: 20006  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/872,056  
FILING DATE: 25-APR-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: GADIANO, WILHEM F  
REGISTRATION NUMBER: 37,136  
REFERENCE/DOCKET NUMBER: 37712-213  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 778-8373  
TELEFAX: (202) 778-8335  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 14 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-872-056--8

Query Match 1.2%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 53;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 572 CTCTGGTGTAAAA 585  
Db 14 CTCTGGTGATAAAA 1

RESULT 158  
US-09-529-157-8/c  
Sequence 8, Application US/09529157  
Patent No. 6500939  
GENERAL INFORMATION:  
APPLICANT: Kato, Seishi  
TITLE OF INVENTION: cDNAs Coding For Human Proteins Having Transmembrane  
FILE REFERENCE: GIN-6711CPUS  
CURRENT APPLICATION NUMBER: US/09/529,157  
CURRENT FILING DATE: 2000-08-21  
PRIOR APPLICATION NUMBER: PCT/JP98/04447  
PRIOR FILING DATE: 1998-10-02  
PRIOR APPLICATION NUMBER: JP 9-276270  
PRIOR FILING DATE: 1997-10-08  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 14  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: chimeric  
OTHER INFORMATION: DNA-RNA oligonucleotide  
US-09-529-157-8

Query Match 1.2%; Score 12.4; DB 1; Length 14;  
Best Local Similarity 92.9%; Pred. No. 53;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 202 TCCTCGACTTCCCC 215  
Db 14 TCCTCGAATCCCC 1

RESULT 159  
US-07-791-213D-42/c

Sequence 42, Application US/07791213D  
Patent No. 5409895  
GENERAL INFORMATION:  
APPLICANT: MORISHITA, Hideaki  
APPLICANT: KANAMORI, Toshinori  
APPLICANT: NOBUHARA, Masahiro  
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE  
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME  
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF  
TITLE OF INVENTION: TREATING USING THE SAME  
NUMBER OF SEQUENCES: 108  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Burns, Doane, Swecker & Mathis  
STREET: P.O. Box 1404  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/791,213D  
FILING DATE: 13-NOV-1991  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-306745  
FILING DATE: 13-NOV-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Meuth, Donna M  
REGISTRATION NUMBER: 36,607  
REFERENCE/DOCKET NUMBER: 029650-032  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 836-8620  
TELEFAX: (703) 836-2021  
INFORMATION FOR SEQ ID NO: 42:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-07-791-213D-42

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 13 GCAGCGCGGCGCG 26  
Db 15 GCAGCGCGGACGG 2

RESULT 160  
US-08-050-073-201  
Sequence 201, Application US/08050073  
Patent No. 5567809  
GENERAL INFORMATION:  
APPLICANT: Apple, Raymond J.  
APPLICANT: Begovich, Ann B.  
APPLICANT: Bugawan, Teodorica L.  
APPLICANT: Erlich, Henry A.  
APPLICANT: Griffith, Robert L.  
APPLICANT: Scharf, Stephen J.  
TITLE OF INVENTION: Methods and Reagents for HLA DRBeta DNA  
TITLE OF INVENTION: Typing  
NUMBER OF SEQUENCES: 315  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hoffmann-La Roche Inc.  
STREET: 340 Kingsland Street  
CITY: Nutley

STATE: New Jersey  
COUNTRY: U.S.A.  
ZIP: 07110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/050,073  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Petry, Douglas A.  
REGISTRATION NUMBER: 35,321  
REFERENCE/DOCKET NUMBER: 8769  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 814-2974  
TELEFAX: (510) 814-2977  
INFORMATION FOR SEQ ID NO: 201:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: genomic DNA  
US-08-050-073-201

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 GAGCGGGCAGCGG 92  
|||||  
Db 1 GAGCGGGCAGCGG 14

RESULT 161  
US-08-050-073-202/c  
Sequence 202, Application US/08050073  
Patent No. 5567809  
GENERAL INFORMATION:  
APPLICANT: Apple, Raymond J.  
APPLICANT: Begovich, Ann B.  
APPLICANT: Bugawan, Teodorica L.  
APPLICANT: Erlich, Henry A.  
APPLICANT: Griffith, Robert L.  
APPLICANT: Scharf, Stephen J.  
TITLE OF INVENTION: Typing  
NUMBER OF SEQUENCES: 315  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hoffmann-La Roche Inc.  
STREET: 340 Kingsland Street  
CITY: Nutley  
STATE: New Jersey  
COUNTRY: U.S.A.  
ZIP: 07110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/050,073  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Petry, Douglas A.  
REGISTRATION NUMBER: 35,321  
REFERENCE/DOCKET NUMBER: 8769  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 814-2974

TELEFAX: (510) 814-2977  
INFORMATION FOR SEQ ID NO: 202:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: genomic DNA  
US-08-050-073-202

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 GAGCGGGCAGCGG 92  
|||||  
Db 15 GAGCGGGCAGCGG 2

RESULT 162  
US-08-050-073-301  
Sequence 301, Application US/08050073  
Patent No. 5567809  
GENERAL INFORMATION:  
APPLICANT: Apple, Raymond J.  
APPLICANT: Begovich, Ann B.  
APPLICANT: Bugawan, Teodorica L.  
APPLICANT: Erlich, Henry A.  
APPLICANT: Griffith, Robert L.  
APPLICANT: Scharf, Stephen J.  
TITLE OF INVENTION: Methods and Reagents for HLA DRBeta DNA  
NUMBER OF SEQUENCES: 315  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hoffmann-La Roche Inc.  
STREET: 340 Kingsland Street  
CITY: Nutley  
STATE: New Jersey  
COUNTRY: U.S.A.  
ZIP: 07110  
COMPUTER READABLE FORM: disk  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/050,073  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Petry, Douglas A.  
REGISTRATION NUMBER: 35,321  
REFERENCE/DOCKET NUMBER: 8769  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 814-2974  
TELEFAX: (510) 814-2977  
INFORMATION FOR SEQ ID NO: 301:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: genomic DNA  
US-08-050-073-301

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 GAGCGGGCAGCGG 92  
|||||  
Db 1 GAGCGGGCAGCGG 14

RESULT 163  
US-08-050-073-302/c  
; Sequence 302, Application US/08050073  
; Patent No. 5567809  
; GENERAL INFORMATION:  
; APPLICANT: Apple, Raymond J.  
; APPLICANT: Begovich, Ann B.  
; APPLICANT: Bugawan, Teodorica L.  
; APPLICANT: Erlich, Henry A.  
; APPLICANT: Griffith, Robert L.  
; APPLICANT: Scharf, Stephen J.  
; TITLE OF INVENTION: Methods and Reagents for HLA DRBeta DNA  
; TITLE OF INVENTION: Typing  
; NUMBER OF SEQUENCES: 315  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hoffmann-La Roche Inc.  
; STREET: 340 Kingsland Street  
; CITY: Nutley  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/050,073  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Petry, Douglas A.  
; REGISTRATION NUMBER: 35,321  
; REFERENCE/DOCKET NUMBER: 8769  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 814-2974  
; TELEFAX: (510) 814-2977  
; INFORMATION FOR SEQ ID NO: 302:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: genomic DNA  
US-08-050-073-302

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 79 GAGCGGGCGCGG 92  
Db 15 GAGCGGGCGCGG 2

RESULT 164  
US-08-363-240A-148  
; Sequence 148, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street

; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 210/096  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 148:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-363-240A-148

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 78.6%; Pred. No. 67;  
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 661 GCGGCTTCACGAC 674  
Db 2 GCGGCTTCACGAC 15

RESULT 165  
US-08-363-240A-149  
; Sequence 149, Application US/08363240A  
; Patent No. 5705388  
; GENERAL INFORMATION:  
; APPLICANT: Couture, Larry  
; APPLICANT: McSwiggen, James  
; APPLICANT: Bisgaier, Charles  
; APPLICANT: Pape, Michael  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TITLE OF INVENTION: PREVENTION, INHIBITION OF  
; TITLE OF INVENTION: PROGRESSION AND REGRESSION  
; TITLE OF INVENTION: OF VASCULAR DISEASES  
; NUMBER OF SEQUENCES: 1243  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/363,240A  
; FILING DATE: December 23, 1994

```
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 149:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-363-240A-149

Query Match 1.2%; Score 12.4; DB 1; Length 15;
Best Local Similarity 78.6%; Pred. No. 67;
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 661 GCGGCTTCACGAGC 674
Db 1 GCGGCUUCCGAGC 14

RESULT 166
US-08-293-150A-42/c
; Sequence 42, Application US/08293150A
; Patent No. 5792629
; GENERAL INFORMATION:
; APPLICANT: MORISHITA, Hideaki
; APPLICANT: KANAMORI, Toshinori
; APPLICANT: NOBUHARA, Masahiro
; TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE
; TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME
; TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF
; TITLE OF INVENTION: TREATING USING THE SAME
; NUMBER OF SEQUENCES: 110
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,150A
; FILING DATE: 19-AUG-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/791,213
; FILING DATE: 13-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-306745
; FILING DATE: 13-NOV-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Meuth, Donna M.
; REGISTRATION NUMBER: 36,607
; REFERENCE/DOCKET NUMBER: 029650-049
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs

;
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-293-150A-42

Query Match 1.2%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 67;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 13 GCAGGCGGCGGCGG 26
Db 15 GCAGGCGGCGGCGG 2

RESULT 167
US-08-292-620A-56/c
; Sequence 56, Application US/08292620A
; Patent No. 5837542
; GENERAL INFORMATION:
; APPLICANT: Susan Grimm
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwiggen
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: INTRACELLULAR ADHESION
; TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
; NUMBER OF SEQUENCES: 2390
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/292,620A
; FILING DATE: August 17, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 208/149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-292-620A-56

Query Match 1.2%; Score 12.4; DB 1; Length 15;
```

```
Best Local Similarity 92.9%; Pred. No. 67;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CCCACGGAGCCGC 293
Db 15 CCCACGGAGCAGC 2

RESULT 168
US-08-292-620A-597/c
; Sequence 597, Application US/08292620A
; Patent No. 5837542
; GENERAL INFORMATION:
; APPLICANT: Susan Grimm
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwiggen
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: INTRACELLULAR ADHESION
; TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
; NUMBER OF SEQUENCES: 2390
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/292,620A
; FILING DATE: August 17, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 208/149
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 597:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-292-620A-597

Query Match 1.2%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 67;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CCCACGGAGCCGC 293
Db 15 CCCACGGAGCAGC 2

RESULT 169
US-08-585-684B-2297/c
; Sequence 2297, Application US/08585684B
; Patent No. 5877021
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Daniel T.
; APPLICANT: Jarvis, Thale
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE
; TITLE OF INVENTION: INDUCTION OF GRAFT TOLERANCE
; TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES
; NUMBER OF SEQUENCES: 2751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/585,684B
; FILING DATE: January 16, 1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/000,951
; FILING DATE: July 7, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 218/078
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2297:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-585-684B-2297

Query Match 1.2%; Score 12.4; DB 1; Length 15;
Best Local Similarity 92.9%; Pred. No. 67;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 925 CTGATTGGAGGAGA 938
Db 15 CTGATTGGAGGAGA 2

RESULT 170
US-09-071-845-56/c
; Sequence 56, Application US/09071845
; Patent No. 6132967
; GENERAL INFORMATION:
; APPLICANT: Susan Grimm
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwiggen
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: INTRACELLULAR ADHESION
; TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
```

NUMBER OF SEQUENCES: 2390  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/071,845  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/292,620  
FILING DATE: August 17, 1994  
APPLICATION NUMBER: 08/008,895  
FILING DATE: January 19, 1993  
APPLICATION NUMBER: 07/989,849  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 208/149  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 56:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-071-845-56

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CCCACGAGCGCG 293  
Db 15 CCCACGAGCGAGC 2

RESULT 171  
US-09-071-845-597/c  
Sequence 597, Application US/09071845  
Patent No. 6132967  
GENERAL INFORMATION:  
APPLICANT: Susan Grimm  
APPLICANT: Dan T. Stinchcomb  
APPLICANT: James McSwiggen  
APPLICANT: Sean Sullivan  
APPLICANT: Kenneth G. Draper  
TITLE OF INVENTION: RIBOZYME TREATMENT OF  
DISEASES OR CONDITIONS  
TITLE OF INVENTION: RELATED TO LEVELS OF  
TITLE OF INVENTION: INTRACELLULAR ADHESION  
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)  
NUMBER OF SEQUENCES: 2390  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California

COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/071,845  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/292,620  
FILING DATE: August 17, 1994  
APPLICATION NUMBER: 08/008,895  
FILING DATE: January 19, 1993  
APPLICATION NUMBER: 07/989,849  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 208/149  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 597:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-071-845-597

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CCCACGAGCGCG 293  
Db 15 CCCACGAGCGAGC 2

RESULT 172  
US-09-038-073-2297/c  
Sequence 2297, Application US/09038073  
Patent No. 6194150  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Daniel T.  
APPLICANT: Jarvis, Thale  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
INDUCTION OF GRAFT TOLERANCE  
TITLE OF INVENTION: AND REVERSAL OF IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 2751  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/038,073  
FILING DATE:



; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/585,684  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 218/078  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 2297:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-038-073-2297

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 925 CTCATTGGAGGAGA 938  
DB 15 CTCATTGGAGAGA 2

RESULT 173  
US-09-056-995-22  
; Sequence 22, Application US/09056995  
; Patent No. 6221586  
; GENERAL INFORMATION:  
; APPLICANT: Barton, Jacqueline K.  
; APPLICANT: Hill, Michael G.  
; APPLICANT: Kelley, Shana O.  
; TITLE OF INVENTION: ELECTROCHEMICAL SENSORS USING  
; FILE REFERENCE: 21182-701  
; CURRENT APPLICATION NUMBER: US/09/056,995  
; CURRENT FILING DATE: 1998-04-08  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 22  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
US-09-056-995-22

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 384 GCGCGCCGCGCGCG 397  
DB 1 GCGCGCCGCGCGCG 14

RESULT 174  
US-09-056-995-23/c  
; Sequence 23, Application US/09056995  
; Patent No. 6221586  
; GENERAL INFORMATION:  
; APPLICANT: Barton, Jacqueline K.  
; APPLICANT: Hill, Michael G.  
; APPLICANT: Kelley, Shana O.  
; TITLE OF INVENTION: ELECTROCHEMICAL SENSORS USING  
; FILE REFERENCE: 21182-701  
; CURRENT APPLICATION NUMBER: US/09/056,995  
; CURRENT FILING DATE: 1998-04-08

; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 23  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
US-09-056-995-23

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 384 GCGCGCCGCGCGCG 397  
DB 15 GCGCGCCGCGCGCG 2

RESULT 175  
US-09-180-437-175/c  
; Sequence 175, Application US/09180437  
; Patent No. 6251873  
; GENERAL INFORMATION:  
; APPLICANT: FUKUSAKO, Shioji  
; APPLICANT: MORISAWA, Yoshifumi  
; APPLICANT: KUSUYAMA, Takeshi  
; TITLE OF INVENTION: Antisense Compounds to CD14  
; FILE REFERENCE: 1110-209P  
; CURRENT APPLICATION NUMBER: US/09/180,437  
; CURRENT FILING DATE: 1998-11-06  
; EARLIER APPLICATION NUMBER: PCT/JP98/00953  
; EARLIER FILING DATE: 1998-03-09  
; EARLIER APPLICATION NUMBER: 09-053518 JAPAN  
; EARLIER FILING DATE: 1997-03-07  
; NUMBER OF SEQ ID NOS: 289  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 175  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: other nucleic  
; OTHER INFORMATION: acid  
US-09-180-437-175

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 116 GCGCGCGCGCAGCTG 129  
DB 14 GCGCGCGCGCAGCTG 1

RESULT 176  
US-09-549-853-38  
; Sequence 38, Application US/09549853  
; Patent No. 6391558  
; GENERAL INFORMATION:  
; APPLICANT: Henkens, Robert W.  
; APPLICANT: O'Daly, John P.  
; APPLICANT: Wojciechowski, Marek W.  
; APPLICANT: Zhang, Honghua W.  
; APPLICANT: Naser, Najih W.  
; APPLICANT: Roe, R. M.  
; APPLICANT: Stewart, Thomas N.  
; APPLICANT: Thompson, Deborah M.  
; APPLICANT: Sundseth, Rebecca  
; APPLICANT: Wegner, Steven E.  
; TITLE OF INVENTION: ELECTROCHEMICAL DETECTION OF NUCLEIC ACID SEQUENCES  
; FILE REFERENCE: 4320.001800  
; CURRENT APPLICATION NUMBER: US/09/549,853

; CURRENT FILING DATE: 2000-04-14  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 38  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-549-853-38

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 707 ACTCCCCATCAGT 720  
Db 2 ACTCCCCATCATGT 15

RESULT 177  
US-09-753-362-14  
; Sequence 14, Application US/09753362  
; Patent No. 6461820  
; GENERAL INFORMATION:  
; APPLICANT: CALIFORNIA INSTITUTE OF TECHNOLOGY  
; APPLICANT: BARTON, Jacqueline  
; APPLICANT: HILL, Michael  
; APPLICANT: KELLEY, Shana  
; TITLE OF INVENTION: ELECTROCHEMICAL SENSOR USING INTERCALATIVE, REDOX-ACTIVE MOIETIES  
; FILE REFERENCE: CIT1310-1  
; CURRENT APPLICATION NUMBER: US/09/753,362  
; PRIOR FILING DATE: 2000-12-29  
; PRIOR APPLICATION NUMBER: US 60/043,146  
; PRIOR FILING DATE: 1997-04-09  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 14  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide probe  
US-09-753-362-14

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 384 GCGCGCCGCGCGCG 397  
Db 1 GCGCGCCGCGCGCG 14

RESULT 178  
US-09-475-947A-322  
; Sequence 322, Application US/09475947A  
; Patent No. 6472154  
; GENERAL INFORMATION:  
; APPLICANT: Garner, Harold R.  
; APPLICANT: Wren, Jonathan D.  
; APPLICANT: Minna, John D.  
; TITLE OF INVENTION: Polymorphic Repeats in Human Genes  
; FILE REFERENCE: UTS0667  
; CURRENT APPLICATION NUMBER: US/09/475,947A  
; CURRENT FILING DATE: 1999-12-31  
; NUMBER OF SEQ ID NOS: 346  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 322  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: human  
US-09-475-947A-322

Query Match 1.2%; Score 12.4; DB 1; Length 15;

Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 115 CGCGCGCGCAGCT 128  
Db 1 CGCGCGCGGAAGCT 14

RESULT 179  
US-09-953-242-14  
; Sequence 14, Application US/09953242  
; Patent No. 6649350  
; GENERAL INFORMATION:  
; APPLICANT: CALIFORNIA INSTITUTE OF TECHNOLOGY  
; APPLICANT: BARTON, Jacqueline K.  
; APPLICANT: BOON, Elizabeth M.  
; APPLICANT: KELLEY, Shana O.  
; APPLICANT: HILL, Michael G.  
; TITLE OF INVENTION: ELECTROCHEMICAL SENSOR USING INTERCALATIVE, REDOX-ACTIVE MOIETIES  
; FILE REFERENCE: CIT1310-2  
; CURRENT APPLICATION NUMBER: US/09/953,242  
; CURRENT FILING DATE: 2001-09-13  
; PRIOR APPLICATION NUMBER: US 09/753,362  
; PRIOR FILING DATE: 2000-12-29  
; PRIOR APPLICATION NUMBER: US 09/056,995  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: US 60/043,146  
; PRIOR FILING DATE: 1997-04-09  
; NUMBER OF SEQ ID NOS: 31  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 14  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide probe  
US-09-953-242-14

Query Match 1.2%; Score 12.4; DB 1; Length 15;  
Best Local Similarity 92.9%; Pred. No. 67;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 384 GCGCGCCGCGCGCG 397  
Db 1 GCGCGCCGCGCGCG 14

RESULT 180  
US-08-050-073-235/c  
; Sequence 235, Application US/08050073  
; Patent No. 5567809  
; GENERAL INFORMATION:  
; APPLICANT: Apple, Raymond J.  
; APPLICANT: Begovich, Ann B.  
; APPLICANT: Bugawan, Teodorica L.  
; APPLICANT: Erlich, Henry A.  
; APPLICANT: Griffith, Robert L.  
; APPLICANT: Scharf, Stephen J.  
; TITLE OF INVENTION: Methods and Reagents for HLA DRBeta DNA  
; TITLE OF INVENTION: Typing  
; NUMBER OF SEQUENCES: 315  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hoffmann-La Roche Inc.  
; STREET: 340 Kingsland Street  
; CITY: Nutley  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 07110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25

```
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/050,073
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Petry, Douglas A.
; REGISTRATION NUMBER: 35,321
; REFERENCE/DOCKET NUMBER: 8769
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 814-2974
; TELEFAX: (510) 814-2977
; INFORMATION FOR SEQ ID NO: 235:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; US-08-050-073-235
;
; Query Match 1.2%; Score 12.4; DB 1; Length 16;
; Best Local Similarity 92.9%; Pred. No. 82;
; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 79 GAGCGGGCGGCGG 92
; Db 14 GAGCGGGCGGCGG 1
;
; RESULT 181
; US-08-050-073-250/c
; Sequence 250, Application US/08050073
; Patent No. 5567809
; GENERAL INFORMATION:
; APPLICANT: Apple, Raymond J.
; APPLICANT: Begovich, Ann B.
; APPLICANT: Bugawan, Teodorica L.
; APPLICANT: Erlich, Henry A.
; APPLICANT: Griffith, Robert L.
; APPLICANT: Scharf, Stephen J.
; TITLE OF INVENTION: Methods and Reagents for HLA DRbeta DNA
; TITLE OF INVENTION: Typing
; NUMBER OF SEQUENCES: 315
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hoffmann-La Roche Inc.
; STREET: 340 Kingsland Street
; CITY: Nutley
; STATE: New Jersey
; COUNTRY: U.S.A.
; ZIP: 07110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/050,073
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Petry, Douglas A.
; REGISTRATION NUMBER: 35,321
; REFERENCE/DOCKET NUMBER: 8769
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 814-2974
; TELEFAX: (510) 814-2977
; INFORMATION FOR SEQ ID NO: 250:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
;
; US-08-050-073-250
; Query Match 1.2%; Score 12.4; DB 1; Length 16;
; Best Local Similarity 92.9%; Pred. No. 82;
; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 79 GAGCGGGCGGCGG 92
; Db 15 GAGCGGGCGGCGG 2
;
; RESULT 182
; US-08-373-124A-135/c
; Sequence 135, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwigen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/373,124A
; FILING DATE: January 13, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-373-124A-135
; Query Match 1.2%; Score 12.4; DB 1; Length 16;
; Best Local Similarity 92.9%; Pred. No. 82;
; Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 116 GCGCGGGCGGCGG 129
; Db 14 GCGCGGGCGGCGG 1
```

## RESULT 183

US-08-435-628-135/c  
; Sequence 135, Application US/08435628  
; Patent No. 5817796

## GENERAL INFORMATION:

; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

## COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/435,628  
; FILING DATE: 05-MAY-1995  
; CLASSIFICATION: 514

## PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/373,124  
; FILING DATE: January 13, 1995  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 08/192,943  
; FILING DATE: February 7, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; APPLICATION NUMBER: 07/936,422  
; FILING DATE: August 26, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510

## INFORMATION FOR SEQ ID NO:

135:

## SEQUENCE CHARACTERISTICS:

LENGTH: 16 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-435-628-135

Query Match 1.2%; Score 12.4; DB 1; Length 16;

Best Local Similarity 92.9%; Pred. No. 82;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 116 GCGCGGCGCAGCTG 129

Db 14 GGCTGCGCAGCTG 1

## RESULT 184

US-09-549-853-34

; Sequence 34, Application US/09549853

; Patent No. 6391558

## GENERAL INFORMATION:

; APPLICANT: Henkens, Robert W.  
; APPLICANT: O'Daly, John P.  
; APPLICANT: Wojciechowski, Marek W.  
; APPLICANT: Zhang, Honghua W.  
; APPLICANT: Naser, Najih W.  
; APPLICANT: Roe, R. M.  
; APPLICANT: Stewart, Thomas N.  
; APPLICANT: Thompson, Deborah M.  
; APPLICANT: Sundseth, Rebecca  
; APPLICANT: Wegner, Steven E.  
; TITLE OF INVENTION: ELECTROCHEMICAL DETECTION OF NUCLEIC ACID SEQUENCES  
; FILE REFERENCE: 4320.001800  
; CURRENT APPLICATION NUMBER: US/09/549,853  
; CURRENT FILING DATE: 2000-04-14  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 34  
; LENGTH: 16  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-549-853-34

Query Match 1.2%; Score 12.4; DB 1; Length 16;

Best Local Similarity 92.9%; Pred. No. 82;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 707 ACTCCCCATCAGGT 720

Db 3 ACTCCCCATCAGT 16

## RESULT 185

US-09-479-005A-2

; Sequence 2, Application US/09479005A

; Patent No. 6656731

## GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.

; TITLE OF INVENTION: Nucleic Acid Catalysts with Endonuclease Activity

; FILE REFERENCE: MHH00-884-C

; CURRENT APPLICATION NUMBER: US/09/479,005A

; CURRENT FILING DATE: 2000-01-07

; PRIOR APPLICATION NUMBER: US 09/444,209

; PRIOR FILING DATE: 1999-11-19

; PRIOR APPLICATION NUMBER: US 09/159,274

; PRIOR FILING DATE: 1998-09-22

; PRIOR APPLICATION NUMBER: US 60/059,473

; PRIOR FILING DATE: 1997-09-22

; NUMBER OF SEQ ID NOS: 1208

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 2

; LENGTH: 16

; TYPE: RNA

; ORGANISM: Homo sapiens

; US-09-479-005A-2

Query Match 1.2%; Score 12.4; DB 1; Length 16;

Best Local Similarity 92.9%; Pred. No. 82;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 16 GCGCGGCGGAGG 29

Db 2 GCGCGGCGGAGG 15

Search completed: June 28, 2004, 08:14:00

Job time : 3 secs

Result No.	Score	Query			ID	Description
		Match	Length	DB		
1	17.8	1.8	21	1	US-10-000-864-20	Sequence 20, Appl
2	16.4	1.6	20	1	US-09-756-071B-2	Sequence 2, Appli
3	16.4	1.6	20	1	US-10-227-738-2	Sequence 2, Appli
C	16.2	1.6	21	1	US-10-461-126-1	Sequence 1, Appli
5	15.8	1.6	19	1	US-09-525-548-3	Sequence 3, Appli
6	15.8	1.6	19	1	US-10-349-143-5276	Sequence 5276, Ap
7	15.8	1.6	20	1	US-09-688-326-410	Sequence 410, App
8	15.8	1.6	20	1	US-09-776-479-243	Sequence 243, App
9	15.8	1.6	20	1	US-09-776-479-243	Sequence 243, App
10	15.8	1.6	20	1	US-10-314-578-243	Sequence 243, App
11	15.8	1.6	20	1	US-10-112-653-235	Sequence 235, App
12	15.8	1.6	20	1	US-10-017-595-243	Sequence 243, App
13	15.8	1.6	20	1	US-10-053-645A-28	Sequence 28, Appl
C	15.8	1.6	20	1	US-10-349-143-9876	Sequence 9876, Ap
15	15.8	1.6	21	1	US-09-828-034-10	Sequence 10, Appl
16	15.4	1.5	17	1	US-09-780-533A-765	Sequence 765, App
17	15.4	1.5	17	1	US-09-780-533A-2337	Sequence 2337, Ap
18	15.4	1.5	17	1	US-09-780-533A-2338	Sequence 2338, Ap
C	15.2	1.5	20	1	US-10-388-360-205	Sequence 205, App
C	15.2	1.5	20	1	US-10-349-143-6333	Sequence 6333, Ap
20	15	1.5	17	1	US-09-780-533A-1789	Sequence 1789, Ap
21	15	1.5	17	1	US-10-238-700-2867	Sequence 2867, Ap
22	15	1.5	17	1	US-09-500-700-68	Sequence 68, Appl
23	14.8	1.5	18	1	US-10-314-405-45	Sequence 45, Appl
24	14.8	1.5	18	1	US-10-016-490C-16	Sequence 16, Appl
25	14.8	1.5	19	1	US-09-780-533A-440	Sequence 440, App
C	14.4	1.4	17	1	US-09-780-533A-1790	Sequence 1790, Ap
27	14.4	1.4	17	1	US-09-780-533A-1791	Sequence 1791, Ap
28	14.4	1.4	17	1	US-09-827-395A-510	Sequence 510, App
29	14.4	1.4	17	1	US-09-740-332-1479	Sequence 1479, Ap
C	14.4	1.4	17	1	US-09-817-879-1479	Sequence 1479, Ap
31	14.4	1.4	17	1	US-10-430-882-510	Sequence 510, App
32	14.4	1.4	17	1	US-10-060-895A-752	Sequence 752, App
33	14.4	1.4	17	1	US-10-060-895A-752	Sequence 752, App



Query Match 1.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 15;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 618 GAATCACTTAGCAGCTGA 635  
|||||  
Db 1 GAATCACTGAGCAGCTGA 18

RESULT 3  
US-10-227-738-2  
; Sequence 2, Application US/10227738  
; Publication No. US20030100529A1  
; GENERAL INFORMATION:  
; APPLICANT: Tryggvason, Karl  
; Kallunki, Pekka  
; Pyke, Charles  
; TITLE OF INVENTION: Laminin Chains: Diagnostic and  
; THERAPEUTIC USE  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: McDonnell Boehrnen Hulbert & Berghoff  
; STREET: 300 South Wacker Drive  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/227,738  
; FILING DATE: 26-Aug-2002  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/800,593  
; FILING DATE: 18-FEB-1997  
; APPLICATION NUMBER: US 08/317,450  
; FILING DATE: 04-OCT-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Chao, Mark  
; REGISTRATION NUMBER: 37,293  
; REFERENCE/DOCKET NUMBER: 94,778-B  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-913-0001  
; TELEFAX: 312-913-0002  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "OLIGOMER PRIMER"  
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-10-227-738-2

Query Match 1.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 15;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 618 GAATCACTTAGCAGCTGA 635  
|||||  
Db 1 GAATCACTGAGCAGCTGA 18

RESULT 4  
US-10-461-126-1/c  
; Sequence 1, Application US/10461126  
; Publication No. US20040072150A1  
; GENERAL INFORMATION:

; APPLICANT: SHYAMALA, Verikatakrisna  
; TITLE OF INVENTION: IDENTIFICATION OF OLIGONUCLEOTIDES FOR THE CAPTURE, DETECTION AND  
; FILE REFERENCE: 2300-19317 (PP19317.002)  
; CURRENT APPLICATION NUMBER: US/10/461,126  
; CURRENT FILING DATE: 2003-06-12  
; PRIOR APPLICATION NUMBER: 60/388,544  
; PRIOR FILING DATE: 2002-06-12  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Sense Primer- nt538-558  
US-10-461-126-1

Query Match 1.6%; Score 16.2; DB 1; Length 21;  
Best Local Similarity 85.7%; Pred. No. 16;  
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 937 GACAGCCCGACAAATAATAC 957  
|||||  
Db 21 GACAGCCCTGACAATCAATCC 1

RESULT 5  
US-09-925-548-3  
; Sequence 3, Application US/09925548  
; Patent No. US20020107216A1  
; GENERAL INFORMATION:  
; APPLICANT: Dedhar, Shoukat  
; APPLICANT: Hannigan, Greg  
; APPLICANT: Yee, Arthur  
; TITLE OF INVENTION: INTEGRIN-LINKED KINASE AND ITS USES  
; FILE REFERENCE: KINE001CIP4  
; CURRENT APPLICATION NUMBER: US/09/925,548  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: 09/390,425  
; PRIOR FILING DATE: 1999-09-03  
; PRIOR APPLICATION NUMBER: 09/035,706  
; PRIOR FILING DATE: 1998-03-05  
; PRIOR APPLICATION NUMBER: 08/955,841  
; PRIOR FILING DATE: 1997-10-21  
; PRIOR APPLICATION NUMBER: 08/752,345  
; PRIOR FILING DATE: 1996-11-19  
; PRIOR APPLICATION NUMBER: 60/009,074  
; PRIOR FILING DATE: 1995-12-21  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-548-3

Query Match 1.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 21;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 694 CCTTCTCCTGGCAACTCCC 712  
|||||  
Db 1 CCTTCTCCGGGAATCCC 19

RESULT 6  
US-10-349-143-5276  
; Sequence 5276, Application US/10349143  
; Publication No. US20040005584A1  
; GENERAL INFORMATION:  
; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta

; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSAT 020Cp1  
; CURRENT APPLICATION NUMBER: US/10/349,143  
; CURRENT FILING DATE: 2003-01-21  
; PRIOR FILING DATE: 1999-10-20  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 5276  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..19  
; OTHER INFORMATION: upstream amplification primer 99-23123 for SEQ 1342,  
US-10-349-143-5276

Query Match 1.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 21;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 745 GGAGTAAGGAGAAAAGAG 763  
||| ||||| ||||| |||||  
Db 1 GGAACAAGGAGAAAAGAG 19

RESULT 7  
US-09-888-326-410  
; Sequence 410, Application US/09888326  
; Publication No. US20030026801A1  
; GENERAL INFORMATION:  
; APPLICANT: Hartmann, Gunther  
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
; FILE REFERENCE: Cell Lysis and Treating Cancer  
; CURRENT APPLICATION NUMBER: US/09/888,326  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,346  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 848  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 410  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (0)..(0)  
; OTHER INFORMATION: phosphodiester backbone  
US-09-888-326-410

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGAGCTGCG 131  
||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGCG 19

RESULT 8  
US-09-776-479-243  
; Sequence 243, Application US/09776479  
; Publication No. US20030087848A1

; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/776,479  
; CURRENT FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; PRIOR FILING DATE: 2000-02-03  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 243  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-776-479-243

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGAGCTGCG 131  
||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGCG 19

RESULT 9  
US-09-776-479-243  
; Sequence 243, Application US/09776479  
; Publication No. US20040067902A9  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/776,479  
; CURRENT FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; PRIOR FILING DATE: 2000-02-03  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 243  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-776-479-243

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGAGCTGCG 131  
||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGCG 19

RESULT 10  
US-10-314-578-243  
; Sequence 243, Application US/10314578  
; Publication No. US20030212026A1  
; GENERAL INFORMATION:  
; APPLICANT: Krieg, Arthur M.  
; APPLICANT: Schetter, Christian  
; APPLICANT: Vollmer, Jorg  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids



FILE REFERENCE: C1039/7035 (HCL/MAT)  
CURRENT APPLICATION NUMBER: US/10/314,578  
CURRENT FILING DATE: 2002-12-09  
PRIOR FILING DATE: 1999-09-25  
PRIOR APPLICATION NUMBER: US 60/156,113  
PRIOR FILING DATE: 1999-09-25  
PRIOR APPLICATION NUMBER: US 60/156,135  
PRIOR FILING DATE: 1999-09-27  
PRIOR APPLICATION NUMBER: US 60/227,436  
PRIOR FILING DATE: 2000-08-23  
NUMBER OF SEQ ID NOS: 1145  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 243  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Sequence  
US-10-314-578-243

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGAGCTGCG 131  
|||||  
Db 1 GCGGGCGGGCGGGCGCG 19

RESULT 11  
US-10-112-653-235  
Sequence 235, Application US/10112653  
Publication No. US20030050268A1  
GENERAL INFORMATION:  
APPLICANT: Krieg, Arthur M.  
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR  
TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES  
FILE REFERENCE: C01039/70060(AWS)  
CURRENT APPLICATION NUMBER: US/10/112,653  
CURRENT FILING DATE: 2002-03-29  
PRIOR FILING DATE: 2002-03-29  
PRIOR APPLICATION NUMBER: US 60/279,642  
PRIOR FILING DATE: 2001-03-29  
NUMBER OF SEQ ID NOS: 1040  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 235  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Oligonucleotide  
US-10-112-653-235

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGAGCTGCG 131  
|||||  
Db 1 GCGGGCGGGCGGGCGCG 19

RESULT 12  
US-10-017-995-243  
Sequence 243, Application US/10017995  
Publication No. US20030055014A1  
GENERAL INFORMATION:  
APPLICANT: Bratzler, Robert L.  
TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids  
FILE REFERENCE: C1037/7025 (HCL/MAT)  
CURRENT APPLICATION NUMBER: US/10/017,995  
CURRENT FILING DATE: 2001-12-18  
PRIOR FILING DATE: 2001-12-18  
PRIOR APPLICATION NUMBER: US 60/255,534  
PRIOR FILING DATE: 2000-12-14

NUMBER OF SEQ ID NOS: 1093  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 243  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Sequence  
US-10-017-995-243

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 GCGGGCGGGCGAGCTGCG 131  
|||||  
Db 1 GCGGGCGGGCGGGCGCG 19

RESULT 13  
US-10-053-645A-28  
Sequence 28, Application US/10053645A  
Publication No. US20030176376A1  
GENERAL INFORMATION:  
APPLICANT: Robert E. Klem  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING A  
CELL-PROLIFERATIVE DISORDER USING CRE DECOY OLIGOMERS, BCL-2  
TITLE OF INVENTION: ANTISENSE OLIGOMERS, AND HYBRID OLIGOMERS THEREOF  
FILE REFERENCE: 10412-022-999  
CURRENT APPLICATION NUMBER: US/10/053,645A  
CURRENT FILING DATE: 2002-01-22  
PRIOR FILING DATE: 2001-01-22  
PRIOR APPLICATION NUMBER: 60/263,244  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 28  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Description of artificial sequence: Synthetic Antisense  
Oligonucleotide  
US-10-053-645A-28

Query Match 1.6%; Score 15.8; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 20;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGGCGGGCGAGCTGCG 132  
|||||  
Db 2 GCGGGCGGGCGGGCGCG 20

RESULT 14  
US-10-349-143-9876/c  
Sequence 9876, Application US/10349143  
Publication No. US20040005584A1  
GENERAL INFORMATION:  
APPLICANT: Cohen, Daniel  
APPLICANT: Blumenfeld, Marta  
APPLICANT: Chumakov, Ilya  
TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
FILE REFERENCE: GENSET 020CP1  
CURRENT APPLICATION NUMBER: US/10/349,143  
CURRENT FILING DATE: 2003-01-21  
PRIOR FILING DATE: 1999-10-20  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732  
PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614  
PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21

```
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 9876
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..20
; OTHER INFORMATION: downstream amplification primer 99-7985 for SEQ 2011, in compleme
US-10-349-143-9876

Query Match      1.6%; Score 15.8; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 428 GTGAGATGGAGATAAAGA 446
Db 20 GTGAGATGGAAGTAAAGA 2

RESULT 15
US-09-828-034-10/c
; Sequence 10, Application US/09828034
; Patent No. US20020064771A1
; GENERAL INFORMATION:
; APPLICANT: Zhong, Weidong
; APPLICANT: Hong, Zhi
; APPLICANT: Ferrari, Eric
; TITLE OF INVENTION: HCV REPLICASE COMPLEXES
; FILE REFERENCE: IN01165
; CURRENT APPLICATION NUMBER: US/09/828,034
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: U.S. 60/195,852
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA
US-09-828-034-10

Query Match      1.6%; Score 15.8; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCGCAGCTCG 131
Db 21 GCGCGCGCGCGCGCGCG 3

RESULT 16
US-09-780-533A-765
; Sequence 765, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 765
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2338
; Sequence 2338, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2338
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2337
; Sequence 2337, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2337
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2337
```

```
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-765

Query Match      1.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 28;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 114 GCGCGCGCGCAGCTGC 130
Db 1 GCGCGCGCAGCAGCUGC 17

RESULT 17
US-09-780-533A-2337
; Sequence 2337, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2337
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2337

Query Match      1.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 28;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 111 CTGCGCGCGCGCGCAGC 127
Db 1 CCGCGCGCGCGCGCAGC 17

RESULT 18
US-09-780-533A-2338
; Sequence 2338, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2338
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2338

Query Match      1.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 28;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 114 GCGCGCGCGCAGCTGC 130
      |||||
Db 1 GCGCGCGCGCAGCAGC 17

RESULT 19
US-10-388-360-205/c
; Sequence 205, Application US/10388360
; Publication No. US20030225528A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH
; APPLICANT: Baker, Joffre B.
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Shak, Steve
; APPLICANT: Walker, Michael Graham
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
; FILE REFERENCE: 39740-0001US
; CURRENT APPLICATION NUMBER: US/10/388,360
; CURRENT FILING DATE: 2003-03-12
; PRIOR FILING DATE: US 60/412,049
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 60/364,890
; PRIOR FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-388-360-205

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 693 TCCTTCTCTGCGCAACTCCC 712
      |||||
Db 20 TCCATCTCTTGGAACTCCC 1

RESULT 20
US-10-349-143-6333/c
; Sequence 6333, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENS.020CP1
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6333
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..20
; OTHER INFORMATION: upstream amplification primer 99-10776 for SEQ 2399,
US-10-349-143-6333

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 114 GCGCGCGCGCAGCTGC 130
      |||||
Db 1 GCGCGCGCGCAGCAGC 17

RESULT 19
US-10-388-360-205/c
; Sequence 205, Application US/10388360
; Publication No. US20030225528A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH
; APPLICANT: Baker, Joffre B.
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Shak, Steve
; APPLICANT: Walker, Michael Graham
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
; FILE REFERENCE: 39740-0001US
; CURRENT APPLICATION NUMBER: US/10/388,360
; CURRENT FILING DATE: 2003-03-12
; PRIOR FILING DATE: US 60/412,049
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 60/364,890
; PRIOR FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-388-360-205

Query Match 1.5%; Score 15.2; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 693 TCCTTCTCTGCGCAACTCCC 712
      |||||
Db 20 TCCATCTCTTGGAACTCCC 1

RESULT 20
US-10-349-143-6333/c
; Sequence 6333, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENS.020CP1
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6333
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..20
; OTHER INFORMATION: upstream amplification primer 99-10776 for SEQ 2399,
US-10-349-143-6333

Query Match 1.5%; Score 15.2; DB 1; Length 17;
Best Local Similarity 85.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 550 GAAAGGAGAAATAGCGCAGG 569
      |||||
Db 20 GAATGAGAAATAGGAAGG 1

RESULT 21
US-09-780-533A-1789
; Sequence 1789, Application US/09780533A
; Publication No. US20030080611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeblerli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1789
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1789

Query Match 1.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 GCGCGCGCGCGCAGC 127
      |||||
Db 2 GCGCGCGCGCGCAGC 16

RESULT 22
US-10-238-700-2867
; Sequence 2867, Application US/10238700
; Publication No. US20030153521A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level
; FILE REFERENCE: 400/057 (MBH01-1158-A)
; CURRENT APPLICATION NUMBER: US/10/238,700
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: PCT/US 02/16840
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: US 60/318,471
; PRIOR FILING DATE: 2001-09-10
; NUMBER OF SEQ ID NOS: 4666
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2867
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-238-700-2867

Query Match 1.5%; Score 15; DB 1; Length 17;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 767 CCCGAGGCGCTTTC 781
      |||||
Db 2 CCCGAGGCGCUUUC 16
```

```
RESULT 23
US-09-500-700-68
; Sequence 68, Application US/09500700
; Publication No. US20030059767A1
; GENERAL INFORMATION:
; APPLICANT: THE SCRIPPS RESEARCH INSTITUTE
; APPLICANT: BARBAS III, Carlos F.
; APPLICANT: GOTTESFELD, Joel M.
; APPLICANT: WRIGHT, Peter E.
; TITLE OF INVENTION: ZINC FINGER PROTEIN DERIVATIVES AND METHODS THEREFOR
; FILE REFERENCE: SCRIP1160-4
; CURRENT APPLICATION NUMBER: US/09/500,700
; CURRENT FILING DATE: 2003-01-10
; PRIOR APPLICATION NUMBER: US 08/863,813
; PRIOR FILING DATE: 1997-05-27
; PRIOR APPLICATION NUMBER: US 08/676,318
; PRIOR FILING DATE: 1996-12-30
; PRIOR APPLICATION NUMBER: PCT/US95/00829
; PRIOR FILING DATE: 1995-01-18
; PRIOR APPLICATION NUMBER: US 08/312,604
; PRIOR FILING DATE: 1994-09-28
; PRIOR APPLICATION NUMBER: US 08/183,119
; PRIOR FILING DATE: 1994-01-18
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: (GCG)6 probe
US-09-500-700-68

Query Match      1.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGCGGCGGCGAGTGGC 131
DB 1 GCGGCGGCGGCGGCGGCG 18

RESULT 24
US-10-314-405-45
; Sequence 45, Application US/10314405
; Publication No. US20030108940A1
; GENERAL INFORMATION:
; APPLICANT: Hidetoshi, Inoko
; APPLICANT: Gen, Tamiya
; APPLICANT: Yasunari, Matsuzaka
; TITLE OF INVENTION: NOVEL POLYMORPHIC MICROSATELLITE MARKERS IN THE HUMAN MHC CLASS I
; FILE REFERENCE: 06501-089001
; CURRENT APPLICATION NUMBER: US/10/314,405
; CURRENT FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: US/09/713,616
; PRIOR FILING DATE: 2000-11-15
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 45
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-314-405-45

Query Match      1.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGCGGCGGCGAGTGGC 131
DB 1 GCGGCGGCGGCGGCGGCG 18

RESULT 25
US-10-016-490C-16
; Sequence 16, Application US/10016490C
; Publication No. US20040072769A1
; GENERAL INFORMATION:
; APPLICANT: Yin, James Q.
; TITLE OF INVENTION: Methods for design and selection of short double-stranded
; FILE REFERENCE: 01-2793
; CURRENT APPLICATION NUMBER: US/10/016,490C
; CURRENT FILING DATE: 2002-11-22
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: The same as those in human.
US-10-016-490C-16

Query Match      1.5%; Score 14.8; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 33;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 279 GCCCCACGGAGCGCCGAG 296
DB 2 GCCCCCGGAGCGCGGAG 19

RESULT 26
US-09-780-533A-440/C
; Sequence 440, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 440
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-440

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 601 GGAGATGGATCTGAAA 616
DB 16 GGAGATGAATCTGAAA 1

RESULT 27
US-09-780-533A-1790
; Sequence 1790, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
```

```
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00-878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; -SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1790
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1790

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 115 CGCGCGCGGCGAGCTGC 130
Db 1 CGCGCGCGGCGAGCAGC 16

RESULT 28
US-09-780-533A-1791
; Sequence 1791, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MHB00-878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; -SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1791
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-1791

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 45;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 115 CGCGCGCGGCGAGCTGC 130
Db 1 CGCGCGCGGCGAGCAGC 16

RESULT 29
US-09-827-395A-510
; Sequence 510, Application US/09827395A
; Publication No. US20030113891A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Lawrence Blatt
; APPLICANT: James McSwiggen
; APPLICANT: Bharat Chowrira
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor G
; FILE REFERENCE: MHB00-878-C (400/017)
; CURRENT APPLICATION NUMBER: US/09/827,395A
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 09/780,533
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/181,797
```

```
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 2617
; -SOFTWARE: PatentIn version 3.0
; SEQ ID NO 510
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-827-395A-510

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 80 AGCGCGGCGAGCGGGG 95
Db 1 AGCGAGCGGCGAGCGGGG 16

RESULT 30
US-09-740-332-1479/c
; Sequence 1479, Application US/09740332
; Publication No. US20030125270A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related
; FILE REFERENCE: RPI 400/003
; CURRENT APPLICATION NUMBER: US/09/740,332
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 9704
; -SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1479
; LENGTH: 17
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-09-740-332-1479

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 795 CACACCCAGCCCGAAGA 810
Db 16 CACACCCAGCCCGACGA 1

RESULT 31
US-09-817-879-1479/c
; Sequence 1479, Application US/09817879
; Publication No. US20030171311A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related
; FILE REFERENCE: MHB00-801-F
; CURRENT APPLICATION NUMBER: US/09/817,879
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 9703
; -SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1479
; LENGTH: 17
; TYPE: RNA
; ORGANISM: artificial sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: oligonucleotide substrate
US-09-817-879-1479
```

```
Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      795 CACACACCCCGAAGA 810
DB      16 CACACACCCCGAGCA 1

RESULT 32
US-10-430-882-510
; Sequence 510, Application US/10430882
; Publication No. US20030203870A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Lawrence Blatt
; APPLICANT: James McSwiggen
; APPLICANT: Bharat Chowrira
; APPLICANT: Peter Haeblerli
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor
; FILE REFERENCE: MHB00-878-H (400/112)
; CURRENT APPLICATION NUMBER: US/10/430,882
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 09/827,395
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 09/780,533
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: PCT/US01/04273
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/181,797
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: PCT/US02/10512
; PRIOR FILING DATE: 2002-04-03
; NUMBER OF SEQ ID NOS: 2617
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 510
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-430-882-510

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      80 AGCGGCGCAGCGGGG 95
DB      1 AGGAGGCGCAGCGGGG 16

RESULT 33
US-10-060-895A-752/c
; Sequence 752, Application US/10060895A
; Publication No. US20030104403A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Jian
; APPLICANT: Gu, Yizhong
; APPLICANT: Nguyen, Cung-Tuong
; TITLE OF INVENTION: HUMAN UDP-GALNAC:POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE 10
; FILE REFERENCE: PB0158
; CURRENT APPLICATION NUMBER: US/10/060,895A
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/315,984
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 1682
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 752
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-895A-752
```

```
Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      30 AGCCCTCAAGCGGAGC 45
DB      17 AGCCCTCAATGCGAGC 2

RESULT 34
US-10-060-895A-753/c
; Sequence 753, Application US/10060895A
; Publication No. US20030104403A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Jian
; APPLICANT: Gu, Yizhong
; APPLICANT: Nguyen, Cung-Tuong
; TITLE OF INVENTION: HUMAN UDP-GALNAC:POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE 10
; FILE REFERENCE: PB0158
; CURRENT APPLICATION NUMBER: US/10/060,895A
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/315,984
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 1682
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 753
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-895A-752

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 45;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      30 AGCCCTCAAGCGGAGC 45
DB      16 AGCCCTCAATGCGAGC 1

RESULT 35
US-10-060-895A-754/c
; Sequence 754, Application US/10060895A
; Publication No. US20030104403A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Jian
; APPLICANT: Gu, Yizhong
; APPLICANT: Nguyen, Cung-Tuong
; TITLE OF INVENTION: HUMAN UDP-GALNAC:POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE 10
; FILE REFERENCE: PB0158
; CURRENT APPLICATION NUMBER: US/10/060,895A
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/315,984
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 1682
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 754
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-895A-754
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; TITLE OF INVENTION: Method and Reagent for the Inhibition of Telomerase Enzyme
; FILE REFERENCE: MBH00-882-C (400/019)
; CURRENT APPLICATION NUMBER: US/10/712,672
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US/09/653,225
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/197,769
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/150,713
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 5586
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 407
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-712-672-407

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 45;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      388 CCGCGCGCGCGCGCGT 403
Db      1 CCGCGCGCGCGCGCGU 16

RESULT 38
US-10-349-143-4210/C
; Sequence 4210, Application US/10349143
; Publication No. US2004000584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4210
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-1394 for SEQ 276,
US-10-349-143-4210

Query Match      1.4%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 42;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      549 GGAAGAGGAGAAATAGG 564
Db      17 GGAAGAGGAGAAATATG 2

RESULT 39
US-09-927-046-266
; Sequence 266, Application US/09927046
; Publication No. US20030064946A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc

; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDIT
; FILE REFERENCE: 400/056 (MBH01-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1390
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-1390

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 45;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      407 CTGCAGCGCGCCCGC 422
Db      1 CUGCAGCGGCACCCGC 16

RESULT 36
US-10-230-006-2189
; Sequence 2189, Application US/10230006
; Publication No. US20030191077A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Fosenagh, Kathy
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDIT
; FILE REFERENCE: 400/056 (MBH01-1110)
; CURRENT APPLICATION NUMBER: US/10/230,006
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US 60/315,315
; PRIOR FILING DATE: 2001-08-28
; NUMBER OF SEQ ID NOS: 2678
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2189
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-230-006-2189

Query Match      1.4%; Score 14.4; DB 1; Length 17;
Best Local Similarity 87.5%; Pred. No. 45;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      407 CTGCAGCGCGCCCGC 422
Db      2 CUGCAGCGGCACCCGC 17

RESULT 37
US-10-712-672-407
; Sequence 407, Application US/10712672
; Publication No. US20040102413A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Chowrira, Bharat
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
```

; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 266  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-266

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.4%; Pred. No. 54;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 604 GATGATCTGAAT 617  
||:||||:||||:  
Db 2 GAUGGAUCUGAAU 15

## RESULT 40

US-09-927-046-854  
; Sequence 854, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 854  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-854

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.4%; Pred. No. 54;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 604 GATGATCTGAAT 617  
||:||||:||||:  
Db 1 GAUGGAUCUGAAU 14

## RESULT 41

US-09-927-046-1188  
; Sequence 1188, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew

; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1188  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-1188

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 78.6%; Pred. No. 54;  
Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 977 AGAAGTCGAGCTGT 990  
||||:||||:  
Db 4 AGAAGTCGAGCTGT 17

## RESULT 42

US-09-927-046-1189  
; Sequence 1189, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1189  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-1189

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 78.6%; Pred. No. 54;  
Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 977 AGAAGTCGAGCTGT 990  
||||:||||:  
Db 1 AGAAGTCGAGCTGT 14

## RESULT 43

US-09-927-046-1361  
; Sequence 1361, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046



; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1361  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-1361

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 78.6%; Pred. No. 54;  
Matches 11; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 977 AGAAGTCGACGTGT 990  
Db 3 AGAACUGCAGCUGU 16  
|||||:|||||:  
|||||:|||||:

RESULT 44  
US-09-927-046-1734  
; Sequence 1734, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, James  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Avers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Symkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1734  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-1734

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.4%; Pred. No. 54;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 604 GATGGATCTGAAT 617  
Db 4 GAUGGAUCUGAAU 17  
|||:|||||:  
|||:|||||:

RESULT 45  
US-10-238-700-2866  
; Sequence 2866, Application US/10238700  
; Publication No. US2003015321A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level  
; FILE REFERENCE: 400/057 (MBH01-1158-A)  
; CURRENT APPLICATION NUMBER: US/10/238,700  
; CURRENT FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: PCT/US 02/16840  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: US 60/318,471  
; PRIOR FILING DATE: 2001-09-10  
; NUMBER OF SEQ ID NOS: 4666  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2866  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens

US-10-238-700-2866

Query Match 1.4%; Score 14; DB 1; Length 17;  
Best Local Similarity 64.3%; Pred. No. 54;  
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 767 CCCAGTGCCTTTT 780  
Db 4 CCCAGUGCCUUU 17  
|||||:|||||:  
|||||:|||||:

RESULT 46  
US-09-918-186A-99/c  
; Sequence 99, Application US/09918186A  
; Patent No. US20020137708A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Elizabeth J. Ackermann  
; APPLICANT: Eric E. Swayze  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SURVIVIN EXPRESSION  
; FILE REFERENCE: ISPH-0585  
; CURRENT APPLICATION NUMBER: US/09/918,186A  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 09/496,694  
; PRIOR FILING DATE: 2000-02-02  
; PRIOR APPLICATION NUMBER: 09/286,407  
; PRIOR FILING DATE: 1999-04-05  
; PRIOR APPLICATION NUMBER: 09/163,162  
; PRIOR FILING DATE: 1998-09-29  
; NUMBER OF SEQ ID NOS: 250  
; SEQ ID NO 99  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-918-186A-99

Query Match 1.4%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 51;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 112 TGGCGGCGGCGCA 125  
Db 16 TGGCGGCGGCGCA 3  
|||||:|||||:  
|||||:|||||:

RESULT 47  
US-10-181-316-99/c  
; Sequence 99, Application US/10181316  
; Publication No. US20030211607A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Elizabeth J. Ackermann  
; APPLICANT: Eric E. Swayze  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF SURVIVIN EXPRESSION  
; FILE REFERENCE: ISPH-0650  
; CURRENT APPLICATION NUMBER: US/10/181,316  
; CURRENT FILING DATE: 2002-07-16  
; PRIOR APPLICATION NUMBER: PCT/US01/02939  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: 09/496,694  
; PRIOR FILING DATE: 2000-02-02  
; PRIOR APPLICATION NUMBER: 09/286,407  
; PRIOR FILING DATE: 1999-04-05  
; PRIOR APPLICATION NUMBER: 09/163,162  
; PRIOR FILING DATE: 1998-09-29  
; NUMBER OF SEQ ID NOS: 249  
; SEQ ID NO 99  
; LENGTH: 18  
; TYPE: DNA



APPLICANT: MUSCAT, George Eugene Orlando  
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES AND METHODS OF USING THEM  
; FILE REFERENCE: 21415-0003  
; CURRENT APPLICATION NUMBER: US/09/814,777A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: AU P06457  
; PRIOR FILING DATE: 2000-03-24  
; NUMBER OF SEQ ID NOS: 128  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 89  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: hSOX18 primer B  
US-09-814-777A-89

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 387 GCCCGCGCGCGCGCGT 403  
Db 1 GCCCGCGCGCGATCTGT 17

RESULT 51  
US-09-825-805-564/c  
; Sequence 564, Application US/09825805  
; Publication No. US20030004122A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Beigelman, Leo  
; APPLICANT: Beaudry, Amber  
; APPLICANT: Karpeisky, Alex  
; APPLICANT: Adamic, Jasenka Matulic  
; APPLICANT: Sweedler, Dave  
; APPLICANT: Zinnen, Shawn  
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot  
; FILE REFERENCE: MBH00-831-F (400/009)  
; CURRENT APPLICATION NUMBER: US/09/825,805  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 09/578,223  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 09/476,387  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: 09/474,432  
; PRIOR FILING DATE: 1999-12-29  
; PRIOR APPLICATION NUMBER: 09/301,511  
; PRIOR FILING DATE: 1998-11-04  
; PRIOR APPLICATION NUMBER: 60/083,727  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/064,866  
; NUMBER OF SEQ ID NOS: 1558  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 564  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-825-805-564

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 51 GCCCGCGCGTCCCGCG 67  
Db 17 GCCCGCGCGTCCCGGG 1

RESULT 52  
US-09-825-805-580  
; Sequence 580, Application US/09825805  
; Publication No. US20030004122A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Beigelman, Leo  
; APPLICANT: Beaudry, Amber  
; APPLICANT: Karpeisky, Alex  
; APPLICANT: Adamic, Jasenka Matulic  
; APPLICANT: Sweedler, Dave  
; APPLICANT: Zinnen, Shawn  
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot  
; FILE REFERENCE: MBH00-831-F (400/009)  
; CURRENT APPLICATION NUMBER: US/09/825,805  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 09/578,223  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 09/476,387  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: 09/474,432  
; PRIOR FILING DATE: 1999-12-29  
; PRIOR APPLICATION NUMBER: 09/301,511  
; PRIOR FILING DATE: 1999-04-28  
; PRIOR APPLICATION NUMBER: 09/186,675  
; PRIOR FILING DATE: 1998-11-04  
; PRIOR APPLICATION NUMBER: 60/083,727  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/064,866  
; PRIOR FILING DATE: 1997-11-05  
; NUMBER OF SEQ ID NOS: 1558  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 580  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-825-805-580

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 CCCACGGAGCGCCGAGC 297  
Db 1 CCCCGCGAGCGCGAGC 17

RESULT 53  
US-09-961-077-801  
; Sequence 801, Application US/09961077  
; Publication No. US20030014775A1  
; GENERAL INFORMATION:  
; APPLICANT: Zwick, Michael G.  
; Edington, Brent E.  
; McSwiggen, James A.  
; Merlo, Patricia Ann Owens  
; Guo, Lining  
; Skokut, Thomas A.  
; Young, Scott A.  
; Folkerts, Otto  
; Merlo, Donald J.  
; TITLE OF INVENTION: MODULATION OF GENE EXPRESSION  
; IN PLANTS  
; NUMBER OF SEQUENCES: 1263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/961,077

FILING DATE: 21-Sep-2001

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/679,645

FILING DATE: July 12, 1996

APPLICATION NUMBER: 60/001,135

FILING DATE: July 13, 1995

APPLICATION NUMBER: 08/300,726

FILING DATE: September 2, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard J.

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 219/247

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 801:

SEQUENCE CHARACTERISTICS:

LENGTH: 17 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 801:

US-09-961-077-801

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 64.7%; Pred. No. 59;  
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 203 CCTCGACTTCCCGTCG 219

Db 1 CCUCGAGUUCUCGUCG 17

RESULT 54

US-09-780-533A-815

Sequence 815, Application US/09780533A

Publication No. US20030060611A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

APPLICANT: Blatt, Larry

APPLICANT: McSwiggen, Jim

APPLICANT: Chowrira, Bharat

APPLICANT: Haeblerli, Pete

TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene

FILE REFERENCE: MEHB00,878-A (400/011)

CURRENT APPLICATION NUMBER: US/09/780,533A

CURRENT FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: US 60/181,797

PRIOR FILING DATE: 2000-02-11

NUMBER OF SEQ ID NOS: 6679

SOFTWARE: PatentIn version 3.0

SEQ ID NO 815

LENGTH: 17

TYPE: RNA

ORGANISM: Homo sapiens

US-09-780-533A-815

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 59;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 388 CCGCGCGCGCGTCG 404

|||||

Db 1 CCCGCGCGCGGUGUC 17

RESULT 55

US-09-877-478-2237/c

Sequence 2237, Application US/09877478

Publication No. US20030068301A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

APPLICANT: Draper, Kenneth

APPLICANT: Blatt, Larry

APPLICANT: McSwiggen, Jim

APPLICANT: Morrissey, Dave

TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication

FILE REFERENCE: MEHB00-845-H (400/029)

CURRENT APPLICATION NUMBER: US/09/877,478

CURRENT FILING DATE: 2001-12-31

PRIOR APPLICATION NUMBER: US 07/882,712

PRIOR FILING DATE: 1992-05-14

PRIOR APPLICATION NUMBER: US 09/531,025

PRIOR FILING DATE: 2000-03-20

PRIOR APPLICATION NUMBER: US 09/636,385

PRIOR FILING DATE: 2000-08-09

PRIOR APPLICATION NUMBER: US 09/696,347

PRIOR FILING DATE: 2000-10-24

PRIOR APPLICATION NUMBER: US 08/193,627

PRIOR FILING DATE: 1994-02-07

PRIOR APPLICATION NUMBER: US 08/433,993

PRIOR FILING DATE: 1995-05-04

PRIOR APPLICATION NUMBER: US 08/434,504

PRIOR FILING DATE: 1995-05-04

PRIOR APPLICATION NUMBER: US 09/436,430

PRIOR FILING DATE: 1999-11-08

NUMBER OF SEQ ID NOS: 6586

SOFTWARE: PatentIn version 3.0

SEQ ID NO 2237

LENGTH: 17

TYPE: RNA

ORGANISM: Hepatitis B virus

US-09-877-478-2237

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 474 TGATCGTCCAGAGAAC 490

|||||

Db 17 TGATAGTCCAGAGAAC 1

RESULT 56

US-09-848-754A-1339/c

Sequence 1339, Application US/09848754A

Publication No. US20030073207A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related

FILE REFERENCE: MEHB00-958-1 (400/018)

CURRENT APPLICATION NUMBER: US/09/848,754A

CURRENT FILING DATE: 2001-05-03

NUMBER OF SEQ ID NOS: 9645

SOFTWARE: PatentIn version 3.0

SEQ ID NO 1339

LENGTH: 17

TYPE: RNA

ORGANISM: Homo sapiens

US-09-848-754A-1339

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 406 CCTGCAGCGCCCGCCG 422  
Db 17 CCTGCAGCGCCCTCCG 1

## RESULT 57

US-09-848-754A-1340/c  
; Sequence 1340, Application US/09848754A  
; Publication No. US20030073207A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors  
; FILE REFERENCE: MBH00-958-I (400/018)  
; CURRENT APPLICATION NUMBER: US/09/848,754A  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 9645  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1340  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-848-754A-1340

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 403 TCTCTGCAGCGCCCG 419  
Db 17 TCTCTGCAGCGCCTC 1

## RESULT 58

US-09-848-754A-1341/c  
; Sequence 1341, Application US/09848754A  
; Publication No. US20030073207A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors  
; FILE REFERENCE: MBH00-958-I (400/018)  
; CURRENT APPLICATION NUMBER: US/09/848,754A  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 9645  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1341  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-848-754A-1341

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 400 CCCTCTCTCTGCAGCGC 416  
Db 17 CCCTCTCTCTGCAGCAGC 1

## RESULT 59

US-09-848-754A-2125/c  
; Sequence 2125, Application US/09848754A  
; Publication No. US20030073207A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors  
; FILE REFERENCE: MBH00-958-I (400/018)  
; CURRENT APPLICATION NUMBER: US/09/848,754A  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 9645

; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2125  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-848-754A-2125

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 321 GTCGTGGCGCGCCG 337  
Db 17 GCGCGCGCGCGCCG 1

## RESULT 60

US-09-848-754A-2407/c  
; Sequence 2407, Application US/09848754A  
; Publication No. US20030073207A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors  
; FILE REFERENCE: MBH00-958-I (400/018)  
; CURRENT APPLICATION NUMBER: US/09/848,754A  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 9645  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2407  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-848-754A-2407

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 405 TCTCTGCAGCGCCCG 421  
Db 17 TCTCTGCAGCGCCTCCG 1

## RESULT 61

US-09-827-395A-756/c  
; Sequence 756, Application US/09827395A  
; Publication No. US20030113891A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Lawrence McSwiggen  
; APPLICANT: Bharat Chowira  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor Gene Expression  
; FILE REFERENCE: MBH00-878-C (400/017)  
; CURRENT APPLICATION NUMBER: US/09/827,395A  
; CURRENT FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: 09/780,533  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; NUMBER OF SEQ ID NOS: 2617  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 756  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-827-395A-756

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;



US-10-430-882-992

RESULT 66  
US-10-430-882-756/c  
; Sequence 756, Application US/10430882  
; Publication No. US20030203870A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Lawrence Blatt  
; APPLICANT: James McSwiggen  
; APPLICANT: Bharat Chowira  
; APPLICANT: Peter Haerberli  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor  
; FILE REFERENCE: MBH00-878-H (400/112)  
; CURRENT APPLICATION NUMBER: US/10/430,882  
; CURRENT FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 09/827,395  
; PRIOR FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: 09/780,533  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: PCT/US01/04273  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: PCT/US02/10512  
; PRIOR FILING DATE: 2002-04-03  
; NUMBER OF SEQ ID NOS: 2617  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 756  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-430-882-756

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 563 GCGAGGGCCTGTGGTG 579  
Db 17 GCGAGGGCCCGAGGTG 1

RESULT 67  
US-10-430-882-992/c  
; Sequence 992, Application US/10430882  
; Publication No. US20030203870A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Lawrence Blatt  
; APPLICANT: James McSwiggen  
; APPLICANT: Bharat Chowira  
; APPLICANT: Peter Haerberli  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor  
; FILE REFERENCE: MBH00-878-H (400/112)  
; CURRENT APPLICATION NUMBER: US/10/430,882  
; CURRENT FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 09/827,395  
; PRIOR FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: 09/780,533  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: PCT/US01/04273  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: PCT/US02/10512  
; PRIOR FILING DATE: 2002-04-03  
; NUMBER OF SEQ ID NOS: 2617  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 992  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens

US-10-430-882-992

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 564 GCGAGGGCCTGTGGTG 580  
Db 17 GCGAGGGCCCGAGGTG 1

RESULT 68  
US-10-163-552-7/c  
; Sequence 7, Application US/10163552  
; Publication No. US20030105051A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to level  
; TITLE OF INVENTION: HER2  
; FILE REFERENCE: MBH01-1653-A (400/014)  
; CURRENT APPLICATION NUMBER: US/10/163,552  
; CURRENT FILING DATE: 2002-06-06  
; NUMBER OF SEQ ID NOS: 1997  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 7  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-163-552-7

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 51 GCGCGGGCTGCCGCG 67  
Db 17 GCGCGGGCTGCCGCGG 1

RESULT 69  
US-10-163-552-49  
; Sequence 49, Application US/10163552  
; Publication No. US20030105051A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to level  
; FILE REFERENCE: MBH01-1653-A (400/014)  
; CURRENT APPLICATION NUMBER: US/10/163,552  
; CURRENT FILING DATE: 2002-06-06  
; NUMBER OF SEQ ID NOS: 1997  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 49  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-163-552-49

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 CCCACGGAGCCGCGC 297  
Db 1 CCCCGGAGCCGCGAGC 17

RESULT 70  
US-10-156-306-3486  
; Sequence 3486, Application US/10156306  
; Publication No. US20030119017A1

```

; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3486
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-3486

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      117 GCGGGCGGCGGCGCA 133
Db      1 GCGGGCGGCGGCGGCGCA 17

RESULT 71
US-10-156-306-5929
; Sequence 5929, Application US/10156306
; Publication No. US20030119017A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5929
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-5929

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 59;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy      506 AACTGAAGGCAACCTGT 522
Db      1 AACUGAAGGCCAGGUGU 17

RESULT 72
US-10-156-306-6336
; Sequence 6336, Application US/10156306
; Publication No. US20030119017A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6336
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-6336

; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6336
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-6336
```

```

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 59;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      147 GGAGCTGGACACGCTGC 163
Db      1 GCAGGUGGACACGCGUC 17

RESULT 73
US-10-156-306-6935
; Sequence 6935, Application US/10156306
; Publication No. US20030119017A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6935
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-6935

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 59;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy      145 GTCGAGCTGGACGAGCT 161
Db      1 GUGCAGGUGGACGAGCU 17

RESULT 74
US-10-156-306-6936
; Sequence 6936, Application US/10156306
; Publication No. US20030119017A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6936
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-156-306-6936

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 70.6%; Pred. No. 59;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy      146 TCGAGCTGGACGAGCTG 162
Db      1 UGCAGGUGGACGAGCUG 17

RESULT 75
US-10-156-306-7029
; Sequence 7029, Application US/10156306
; Publication No. US20030119017A1
; GENERAL INFORMATION:
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; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR
; FILE REFERENCE: MBH01-664-A (400/050)
; CURRENT APPLICATION NUMBER: US/10/156,306
; CURRENT FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 8013
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7029
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-238-7029

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 59;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 505 AAACGGAAGGCGAGCTG 521
   |||||
Db 1 AAACGGAAGGCGAGCTG 17

RESULT 76
US-10-238-700-6
; Sequence 6, Application US/10238700
; Publication No. US20030153521A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level
; FILE REFERENCE: 400/057 (MBH01-1158-A)
; CURRENT APPLICATION NUMBER: US/10/238,700
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: PCT/US 02/16840
; PRIOR FILING DATE: 2002-05-29
; PRIOR FILING DATE: 2001-09-10
; NUMBER OF SEQ ID NOS: 4666
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-238-700-6

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 115 CGGCGGCGGCGAGCTGCG 131
   |||||
Db 1 CGGCGGCGGCGAGCTGCG 17

RESULT 77
US-10-238-700-11
; Sequence 11, Application US/10238700
; Publication No. US20030153521A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level
; FILE REFERENCE: 400/057 (MBH01-1158-A)
; CURRENT APPLICATION NUMBER: US/10/238,700
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: PCT/US 02/16840
; PRIOR FILING DATE: 2002-05-29
; PRIOR FILING DATE: 2001-09-10
; NUMBER OF SEQ ID NOS: 4666
; SOFTWARE: PatentIn version 3.0
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; SEQ ID NO 11
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-238-700-11

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 115 CGGCGGCGGCGAGCTGCG 131
   |||||
Db 1 CGGCGGCGGCGAGCTGCG 17

RESULT 78
US-10-238-700-2801
; Sequence 2801, Application US/10238700
; Publication No. US20030153521A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Levels
; FILE REFERENCE: 400/057 (MBH01-1158-A)
; CURRENT APPLICATION NUMBER: US/10/238,700
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: PCT/US 02/16840
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: US 60/318,471
; PRIOR FILING DATE: 2001-09-10
; NUMBER OF SEQ ID NOS: 4666
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2801
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-238-700-2801

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 115 CGGCGGCGGCGAGCTGCG 131
   |||||
Db 1 CGGCGGCGGCGAGCTGCG 17

RESULT 79
US-10-061-201-808/c
; Sequence 808, Application US/10061201
; Publication No. US20030166229A1
; GENERAL INFORMATION:
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: HUMAN POSH-LIKE PROTEIN 1
; FILE REFERENCE: PB0178
; CURRENT APPLICATION NUMBER: US/10/061,201
; CURRENT FILING DATE: 2002-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
```

; PRIOR APPLICATION NUMBER: US 09/864,761  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/328,205  
; PRIOR FILING DATE: 2001-10-10  
; NUMBER OF SEQ ID NOS: 4162  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 808  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-061-201-808

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGCGCGCGCAGCTGC 130  
Db 17 GCGCGCTGGGCGAGCTGC 1

RESULT 80  
US-10-061-201-809/c  
; Sequence 809, Application US/10061201  
; Publication No. US20030166229A1  
; GENERAL INFORMATION:  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: HUMAN POSH-LIKE PROTEIN 1  
; FILE REFERENCE: PB0178  
; CURRENT APPLICATION NUMBER: US/10/061,201  
; PRIOR FILING DATE: 2002-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 09/864,761  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/328,205  
; NUMBER OF SEQ ID NOS: 4162  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 809  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-061-201-809

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 59;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 113 GCGCGCGCGCAGCTG 129  
Db 17 GCGCGCTGGGCGAGCTG 1

RESULT 81  
US-10-230-006-2088  
; Sequence 2088, Application US/10230006  
; Publication No. US20030191077A1  
; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Fosnaugh, Kathy  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE TREATMENT OF ASTHMA AND ALLERGIC CONDIT  
; FILE REFERENCE: 400/056 (MEHB01-1110)  
; CURRENT APPLICATION NUMBER: US/10/230,006  
; CURRENT FILING DATE: 2002-11-18  
; PRIOR APPLICATION NUMBER: US 60/315,315  
; PRIOR FILING DATE: 2001-08-28  
; NUMBER OF SEQ ID NOS: 2678  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2088  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-230-006-2088

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 59;  
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 48 CGCGCGCGCGCTGCCG 64  
Db 1 CGCGCGCGGAGCUGCCG 17

RESULT 82  
US-10-138-674-2075  
; Sequence 2075, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel  
; FILE REFERENCE: MEHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2075  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-2075

Query Match 1.4%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 58.8%; Pred. No. 59;  
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 921 TTTCCTGATTGGAGGAG 937  
Db 1 UUUCCUGAUGGAGGAG 17

RESULT 83  
US-10-287-949A-2075  
; Sequence 2075, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Rel  
; FILE REFERENCE: MEHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11

```
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2075
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-10-287-949A-2075

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 59;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY  921 TTTCTGATTGGAGGAG 937
      ::|||:|||||
Db   1 UUUCCUGAUGGAGGAG 17

RESULT 84
US-10-712-672-716/c
; Sequence 716, Application US/10712672
; Publication No. US20040102413A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Chowrira, Bharat
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Telomerase Enzyme
; FILE REFERENCE: MBH00-882-C (400/019)
; CURRENT APPLICATION NUMBER: US/10/712,672
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US/09/653,225
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/197,769
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/150,713
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 5586
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 716
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-10-712-672-716

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  4 AGCCCTGAGCGGCGG 20
      ||| ||| ||| ||| |||
Db  17 AGCGCTGGGCGAGGCGG 1

RESULT 85
US-10-712-672-948
; Sequence 948, Application US/10712672
; Publication No. US20040102413A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Chowrira, Bharat
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Telomerase Enzyme
; FILE REFERENCE: MBH00-882-C (400/019)
; CURRENT APPLICATION NUMBER: US/10/712,672
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US/09/653,225
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/197,769
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/150,713
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 5586
```

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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 948
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-10-712-672-948

Query Match      1.4%; Score 13.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 59;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY  153 GGACGAGCTGCTGAGC 169
      ||||| ||| ||| ||| |||
Db   1 GGACCGCGCCGCGAGC 17

RESULT 86
US-09-878-582-13
; Sequence 13, Application US/09878582
; Patent No. US20020058638A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowseert
; APPLICANT: Robert McKay
; TITLE OF INVENTION: ANTISENSE MODULATION OF PTEN EXPRESSION
; FILE REFERENCE: ISPH-0463
; CURRENT APPLICATION NUMBER: US/09/878,582
; CURRENT FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: 09/577,902
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/358,381
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: PCT/US99/29594,
; PRIOR FILING DATE: 1999-12-14
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 13
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-878-582-13

Query Match      1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  267 GCGGTGCGCGCGCGCC 283
      ||| ||| ||| ||| ||| |||
Db   2 GGAGGTGCGCGCGCGCGC 18

RESULT 87
US-09-878-582-13/c
; Sequence 13, Application US/09878582
; Patent No. US20020058638A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowseert
; APPLICANT: Robert McKay
; TITLE OF INVENTION: ANTISENSE MODULATION OF PTEN EXPRESSION
; FILE REFERENCE: ISPH-0463
; CURRENT APPLICATION NUMBER: US/09/878,582
; CURRENT FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: 09/577,902
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/358,381
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: PCT/US99/29594,
; PRIOR FILING DATE: 1999-12-14
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 13
; LENGTH: 18
```

; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-878-582-13

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGCGCGGCGAGTGC 130  
Db 18 GCGCGCGGCGACCTCC 2

## RESULT 88

US-09-969-373-1628  
; Sequence 1628, Application US/09969373  
; Patent No. US20020133852A1  
; GENERAL INFORMATION:  
; APPLICANT: Effertz, Roger J.  
; APPLICANT: Hauge, Brian M.  
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
; FILE REFERENCE: 38-10(52679)A  
; CURRENT APPLICATION NUMBER: US/09/969,373  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 09/754,853  
; PRIOR FILING DATE: 2001-01-05  
; PRIOR APPLICATION NUMBER: US 09/760,427  
; PRIOR FILING DATE: 2001-01-13  
; PRIOR APPLICATION NUMBER: US 09/855,768  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 4593  
; SEQ ID NO 1628  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Glycine max  
US-09-969-373-1628

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 520 TGTATGCCAGCCTGGAA 536  
Db 1 TGTTCGACGCTGTAA 17

## RESULT 89

US-09-969-373-4477/c  
; Sequence 4477, Application US/09969373  
; Patent No. US20020133852A1  
; GENERAL INFORMATION:  
; APPLICANT: Effertz, Roger J.  
; APPLICANT: Hauge, Brian M.  
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
; FILE REFERENCE: 38-10(52679)A  
; CURRENT APPLICATION NUMBER: US/09/969,373  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 09/754,853  
; PRIOR FILING DATE: 2001-01-05  
; PRIOR APPLICATION NUMBER: US 09/760,427  
; PRIOR FILING DATE: 2001-01-13  
; PRIOR APPLICATION NUMBER: US 09/855,768  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 4593  
; SEQ ID NO 4477  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Glycine max  
US-09-969-373-4477

Query Match 1.4%; Score 13.8; DB 1; Length 18;

Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 824 ATGGCTTCTCACCATAT 840  
Db 17 ACGGCTTCTGACCATAT 1

## RESULT 90

US-09-985-637A-12/c  
; Sequence 12, Application US/09985637A  
; Publication No. US20030119000A1  
; GENERAL INFORMATION:  
; APPLICANT: Polansky, Jon  
; TITLE OF INVENTION: METHODS TO SCREEN AND TREAT INDIVIDUALS WITH GLAUCOMA OR THE PROPI  
; FILE REFERENCE: 13587.296  
; CURRENT APPLICATION NUMBER: US/09/985,637A  
; CURRENT FILING DATE: 2001-11-05  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Primer Sequence  
US-09-985-637A-12

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 831 CTCACCATATAGCCCTG 847  
Db 18 CCCACAATATAGCCCTG 2

## RESULT 91

US-10-244-633-16/c  
; Sequence 16, Application US/10244633  
; Publication No. US20030068640A1  
; GENERAL INFORMATION:  
; APPLICANT: Nguyen, Thai D.  
; APPLICANT: Polansky, Jon R.  
; APPLICANT: Chen, Pu  
; APPLICANT: Chen, Rua  
; TITLE OF INVENTION: Nucleic Acids, Kits, And Methods For The Diagnosis,  
; TITLE OF INVENTION: Prognosis And Treatment Of Glaucoma And Related  
; FILE REFERENCE: 07425.0057.US01  
; CURRENT APPLICATION NUMBER: US/10/244,633  
; CURRENT FILING DATE: 2002-09-17  
; PRIOR APPLICATION NUMBER: US/09/306,828  
; PRIOR FILING DATE: 1999-05-07  
; PRIOR APPLICATION NUMBER: US 09/227,881  
; PRIOR FILING DATE: 1999-01-11  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: Microsoft Word 97  
; SEQ ID NO 16  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-244-633-16

Query Match 1.4%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 56;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 831 CTCACCATATAGCCCTG 847  
Db 18 CCCACAATATAGCCCTG 2

```
RESULT 92
US-10-388-263-837
; Sequence 837, Application US/10388263
; Publication No. US20030228597A1
; GENERAL INFORMATION:
; APPLICANT: Cowsert, Lex M.
; APPLICANT: Baker, Brenda F.
; APPLICANT: McNeil, John
; APPLICANT: Freier, Susan M.
; APPLICANT: Sasmor, Henri M.
; APPLICANT: Brooks, Douglas G.
; APPLICANT: Ohashi, Cara
; APPLICANT: Wyatt, Jacqueline R.
; APPLICANT: Borchers, Alexander
; APPLICANT: Vickers, Timothy A.
; TITLE OF INVENTION: IDENTIFICATION OF GENETIC TARGETS FOR
; TITLE OF INVENTION: MODULATION BY OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: GENERATION OF OLIGONUCLEOTIDES FOR GENE MODULATION
; FILE REFERENCE: ISIS-4503
; CURRENT APPLICATION NUMBER: US/10/388,263
; CURRENT FILING DATE: 2003-03-12
; NUMBER OF SEQ ID NOS: 947
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 837
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-388-263-837

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 267 GCGGTCGCCGCCGCC 283
DB 2 GGAGGTGCCGCCGCC 18

RESULT 93
US-10-388-263-837/c
; Sequence 837, Application US/10388263
; Publication No. US20030228597A1
; GENERAL INFORMATION:
; APPLICANT: Cowsert, Lex M.
; APPLICANT: Baker, Brenda F.
; APPLICANT: McNeil, John
; APPLICANT: Freier, Susan M.
; APPLICANT: Sasmor, Henri M.
; APPLICANT: Brooks, Douglas G.
; APPLICANT: Ohashi, Cara
; APPLICANT: Wyatt, Jacqueline R.
; APPLICANT: Borchers, Alexander
; APPLICANT: Vickers, Timothy A.
; TITLE OF INVENTION: IDENTIFICATION OF GENETIC TARGETS FOR
; TITLE OF INVENTION: MODULATION BY OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: GENERATION OF OLIGONUCLEOTIDES FOR GENE MODULATION
; FILE REFERENCE: ISIS-4503
; CURRENT APPLICATION NUMBER: US/10/388,263
; CURRENT FILING DATE: 2003-03-12
; NUMBER OF SEQ ID NOS: 947
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 837
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-388-263-837

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 267 GCGGTCGCCGCCGCC 283
DB 2 GGAGGTGCCGCCGCC 18
```

```
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 114 GCGGCGCGCGCAGCTGC 130
DB 18 GCGGCGCGCGCACCTCC 2

RESULT 94
US-10-336-213B-13
; Sequence 13, Application US/10336213B
; Publication No. US20040002153A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowsert
; APPLICANT: Robert McKay
; APPLICANT: Tim Vickers
; TITLE OF INVENTION: ANTISENSE MODULATION OF PTEN EXPRESSION
; FILE REFERENCE: ISIS0004-100
; CURRENT APPLICATION NUMBER: US/10/336,213B
; CURRENT FILING DATE: 2003-01-03
; PRIOR APPLICATION NUMBER: US 60/411,780
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 09/878,582
; PRIOR FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: US 09/577,902
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: PCT/US99/29594
; PRIOR FILING DATE: 1999-12-14
; PRIOR APPLICATION NUMBER: US 09/358,381
; PRIOR FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 13
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-10-336-213B-13

Query Match 1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 267 GCGGTCGCCGCCGCC 283
DB 2 GGAGGTGCCGCCGCC 18

RESULT 95
US-10-336-213B-13/c
; Sequence 13, Application US/10336213B
; Publication No. US20040002153A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowsert
; APPLICANT: Robert McKay
; APPLICANT: Tim Vickers
; TITLE OF INVENTION: ANTISENSE MODULATION OF PTEN EXPRESSION
; FILE REFERENCE: ISIS0004-100
; CURRENT APPLICATION NUMBER: US/10/336,213B
; CURRENT FILING DATE: 2003-01-03
; PRIOR APPLICATION NUMBER: US 60/411,780
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 09/878,582
; PRIOR FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: US 09/577,902
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: PCT/US99/29594
; PRIOR FILING DATE: 1999-12-14
; PRIOR APPLICATION NUMBER: US 09/358,381
; PRIOR FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 88
```

```
; SEQ ID NO 13
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
; US-10-336-213B-13

Query Match      1.4%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 114 GCGCGCGCGCGACCTGC 130
      |||||
Db 18 GCGCGCGCGCGACCTCC 2

RESULT 96
US-09-504-231A-343
; Sequence 343, Application US/09504231A
; Patent No. US20020013458A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: IPI 247/282
; CURRENT FILING DATE: 2000-02-15
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 343
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-504-231A-343

Query Match      1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 80;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 385 GCGCGCGCGCGCGAG 399
      |||||
Db 1 GCGCGCGCGCGCGAG 15

RESULT 97
US-09-274-553D-343
; Sequence 343, Application US/09274553D
; Patent No. US20020082225A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwiggen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: IPI 247/282
; CURRENT APPLICATION NUMBER: US/09/274,553
```

```
; CURRENT FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3148
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 343
; LENGTH: 15
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-274-553D-343

Query Match      1.3%; Score 13.4; DB 1; Length 15;
Best Local Similarity 93.3%; Pred. No. 80;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 385 GCGCGCGCGCGCGAG 399
      |||||
Db 1 GCGCGCGCGCGCGAG 15

RESULT 98
US-10-132-002-13
; Sequence 13, Application US/10132002
; Publication No. US2003002204A1
; GENERAL INFORMATION:
; APPLICANT: Lansdorf, Peter
; TITLE OF INVENTION: Method for Detecting Multiple Copies of
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWSON & HOWSON
; STREET: 321 No. US2003002204A1ristown Road
; CITY: Spring House
; STATE: PA
; COUNTRY: U.S.A.
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/132,002
; FILING DATE: 25-Apr-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/730,635
; FILING DATE: 11-OCT-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: B&P7USA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 540-9200
; TELEFAX: (215) 540-5818
; TELEX: N/A
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-132-002-13

Query Match      1.3%; Score 13.4; DB 1; Length 15;
```

Best Local Similarity 93.3%; Pred. No. 80;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 113 GGCGCGCGCGCAGC 127  
Db 1 GGCGCGCGCGCGC 15

**RESULT 99**

```

US-10-001-254-46/c
; Sequence 46, Application US/10001254
; Publication No. US20030049702A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; APPLICANT: Godzik, Adam
; APPLICANT: Pawlowski, Krzysztof
; APPLICANT: Fiorentino, Loredana
; APPLICANT: Lee, Sug Hyung
; APPLICANT: Roth, Wilfred
; APPLICANT: Stenner-Liewen, Frank
; TITLE OF INVENTION: US20030049702A1e1 Death Domain Proteins
; FILE REFERENCE: P-LJ 5037
; CURRENT APPLICATION NUMBER: US/10/001,254
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/301,889
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/715,893
; PRIOR FILING DATE: 2000-11-17
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic primer
US-10-001-254-46

```

```
Query Match      1.3%; Score 13.4; DB 1; Length 16;
Best Local Similarity 93.3%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

Qy 14 CAGCGCGCGCGGAG 28  
Db 15 CAGACGGCGCGGAG 1

RESIST 100

```

RESOLI 100
US-10-712-672-1465
; Sequence 1465, Application US/10712672
; Publication No. US20040102413A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Chowrira, Bharat
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Telomerase Enzyme
; FILE REFERENCE: MEH00-882-C (400/019)
; CURRENT APPLICATION NUMBER: US/10/712,672
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US/09/653,225
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/197,769
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/150,713
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 5586
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1465
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-712-672-1465

```

Query Match 1.3%; Score 13.4; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 75;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 388 CCGCGCGCGAGCCG 402  
|||  
Db 2 CCGCUGCGAGCCG 16

RESULT 101

```

US-09-866-108-2497
; Sequence 2497, Application US/09866108
; Patent No. US2002004800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aemica Sequence Listing Engine
; SEQ ID NO 2497
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-2497

```

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 814 CCTTCACCAGATGGC 828  
||| |||||  
pb 3 CCTGCACCAGATGGC 17

## RESULT 102

US-09-866-108-2498  
; Sequence 2498, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 2498  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-2498

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

## Qy 814 CCTTCACCATGGC 828

Db 2 CCTGCACCATGGC 16

## RESULT 103

US-09-866-108-2499  
; Sequence 2499, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 2499  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-2499

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

## Qy 814 CCTTCACCATGGC 828

Db 1 CCTGCACCATGGC 15

## RESULT 104

US-09-866-108-8123  
; Sequence 8123, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04



; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 8123  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-8123

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 661 GCGGCTTCACGCT 675  
Db 3 GCGGCTTCACGCT 17  
|||||||

RESULT 105  
US-09-866-108-8124  
; Sequence 8124, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharon G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 8124  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-8124

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 661 GCGGCTTCACGCT 675  
Db 2 GCGGCTTCACGCT 16  
|||||||

RESULT 106  
US-09-866-108-8125  
; Sequence 8125, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharon G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Ascomica Sequence Listing Engine  
; SEQ ID NO 8125  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-8125

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 661 GCGGCTTCACGCT 675  
Db 1 GCGGCTTCATCAGCT 15

RESULT 107  
US-09-825-805-311/c  
; Sequence 311, Application US/09825805  
; Publication No. US20030004122A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Belgelman, Leo  
; APPLICANT: Beaudry, Amber  
; APPLICANT: Karpelesky, Alex  
; APPLICANT: Adamic, Jasenka Matulic  
; APPLICANT: Sweedler, Dave  
; APPLICANT: Zimen, Shawn  
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot  
; FILE REFERENCE: MEH800-831-F (400/009)  
; CURRENT APPLICATION NUMBER: US/09/825,805  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: 09/578,223  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 09/476,387  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: 09/474,432  
; PRIOR FILING DATE: 1999-12-29  
; PRIOR APPLICATION NUMBER: 09/301,511  
; PRIOR FILING DATE: 1999-04-28  
; PRIOR APPLICATION NUMBER: 09/186,675  
; PRIOR FILING DATE: 1998-11-04  
; PRIOR APPLICATION NUMBER: 60/083,727  
; PRIOR FILING DATE: 1998-04-29  
; PRIOR APPLICATION NUMBER: 60/064,866  
; PRIOR FILING DATE: 1997-11-05  
; NUMBER OF SEQ ID NOS: 1558  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 311  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-825-805-311

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 49 GCGGCGCGCTGCC 63  
Db 16 GGGCGCGCGCTGCC 2

RESULT 108  
US-09-780-533A-441/c  
; Sequence 441, Application US/09780533A

; Publication No. US20030060611A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Chowrira, Bharat  
; APPLICANT: Haerberli, Pete  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene  
; FILE REFERENCE: MEH800,878-A (400/011)  
; CURRENT APPLICATION NUMBER: US/09/780,533A  
; CURRENT FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: US 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; NUMBER OF SEQ ID NOS: 6679  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 441  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-780-533A-441

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 601 GGAGATCGATCTGAA 615  
Db 15 GGAGATGAATCTGAA 1

RESULT 109  
US-09-780-533A-1788  
; Sequence 1788, Application US/09780533A  
; Publication No. US20030060611A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Chowrira, Bharat  
; APPLICANT: Haerberli, Pete  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene  
; FILE REFERENCE: MEH800,878-A (400/011)  
; CURRENT APPLICATION NUMBER: US/09/780,533A  
; CURRENT FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: US 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; NUMBER OF SEQ ID NOS: 6679  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1788  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-780-533A-1788

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 111 CTGGCGCGCGCGCA 125  
Db 3 CCGCGCGCGCGCGCA 17

RESULT 110  
US-09-780-533A-2248/c  
; Sequence 2248, Application US/09780533A  
; Publication No. US20030060611A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Chowrira, Bharat  
; APPLICANT: Haerberli, Pete

; TITLE OF INVENTION: Method and Reagent for the Inhibition of NCO Gene  
; FILE REFERENCE: MBH00-878-A (400/011)  
; CURRENT APPLICATION NUMBER: US/09/780,533A  
; CURRENT FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: US 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; NUMBER OF SEQ ID NOS: 6679  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 2248  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-780-533A-2248

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 602 GAGATGAATCTGAAA 616  
||||| |||||  
Db 17 GAGATGAATCTGAAA 3

RESULT 111  
US-09-877-478-346/c  
; Sequence 346, Application US/09877478  
; Publication No. US20030068301A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Morrissey, Dave  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: MBH00-845-H (400/029)  
; CURRENT APPLICATION NUMBER: US/09/877,478  
; CURRENT FILING DATE: 2001-12-31  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 08/433,993  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 08/434,504  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6586  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 346  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-09-877-478-346

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 373 GCGGAGAAGCGGCG 387  
||||| |||||  
Db 15 GCGGAGAAGCGGCG 1

RESULT 112  
US-09-877-478-1056/c  
; Sequence 1056, Application US/09877478

; Publication No. US20030068301A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Morrissey, Dave  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: MBH00-845-H (400/029)  
; CURRENT APPLICATION NUMBER: US/09/877,478  
; CURRENT FILING DATE: 2001-12-31  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 08/433,993  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 08/434,504  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6586  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 1056  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-09-877-478-1056

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 373 GCGGAGAAGCGGCG 387  
||||| |||||  
Db 16 GCGGAGAAGCGGCG 2

RESULT 113  
US-09-848-754A-831/c  
; Sequence 831, Application US/09848754A  
; Publication No. US20030073207A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Epidermal Growth Factor Receptors  
; FILE REFERENCE: MBH00-958-I (400/018)  
; CURRENT APPLICATION NUMBER: US/09/848,754A  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 9645  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 831  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-848-754A-831

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 323 CGGTGGCGGCGGCG 337  
||||| |||||  
Db 16 CGGTGGCGGCGGCG 2

RESULT 114

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US-09-848-754A-2408/c
; Sequence 2408, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors
; FILE REFERENCE: MEHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2408
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-2408

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 403 TCTCTCGAGCGGCC 417
Db 16 TCTCTCGAGCGGCC 2

RESULT 115
US-09-930-423-480
; Sequence 480, Application US/09930423
; Publication No. US20030092003A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
; FILE REFERENCE: MEHB00,918-A 400/027
; CURRENT APPLICATION NUMBER: US/09/930,423
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 4553
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 480
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo Sapiens
US-09-930-423-480

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 70;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 55 GCGGCTGCCGCGGGA 69
Db 1 GCGGCGUGCCCCGGGA 15

RESULT 116
US-09-930-423-1013
; Sequence 1013, Application US/09930423
; Publication No. US20030092003A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
; FILE REFERENCE: MEHB00,918-A 400/027
; CURRENT APPLICATION NUMBER: US/09/930,423
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 4553
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1013
; LENGTH: 17
; TYPE: RNA
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```
; ORGANISM: Homo Sapiens
US-09-930-423-1013

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 70;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 55 GCGGCTGCCGCGGGA 69
Db 3 GCGGCGUGCCCCGGGA 17

RESULT 117
US-09-827-395A-769
; Sequence 769, Application US/09827395A
; Publication No. US20030113891A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Lawrence Blatt
; APPLICANT: James McSwiggen
; APPLICANT: Bharat Chowrira
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor Gene Expression
; FILE REFERENCE: MEHB00-878-C (400/017)
; CURRENT APPLICATION NUMBER: US/09/827,395A
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 09/780,533
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 2617
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 769
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-827-395A-769

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 80 AGGCGGGCAGCGGGG 94
Db 3 AGGCGGGCAGCGGGG 17

RESULT 118
US-09-827-395A-770
; Sequence 770, Application US/09827395A
; Publication No. US20030113891A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Lawrence Blatt
; APPLICANT: James McSwiggen
; APPLICANT: Bharat Chowrira
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor Gene Expression
; FILE REFERENCE: MEHB00-878-C (400/017)
; CURRENT APPLICATION NUMBER: US/09/827,395A
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 09/780,533
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 2617
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 770
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-827-395A-770

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 70;
```

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 81 GCGGGGAGCGGGG 95  
|||||

Db 1 GCGAGGAGCGGGG 15

## RESULT 119

US-09-740-332-3076  
; Sequence 3076, Application US/09740332

; Publication No. US20030125270A1

; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals Inc.

; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related

; FILE REFERENCE: RPI 400/003

; CURRENT APPLICATION NUMBER: US/09/740,332

; CURRENT FILING DATE: 2001-03-26

; NUMBER OF SEQ ID NOS: 9704

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3076

; LENGTH: 17

; TYPE: RNA

; ORGANISM: artificial sequence

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION:

; OTHER INFORMATION: oligonucleotide substrate

US-09-740-332-3076

Query Match 1.3%; Score 13.4; DB 1; Length 17;

Best Local Similarity 93.3%; Pred. No. 70;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 795 CACACACCCCGGAG 809

|||||

Db 3 CACACACCCCGGAG 17

## RESULT 120

US-09-745-237A-480

; Sequence 480, Application US/09745237A

; Publication No. US20030143708A1

; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.

; APPLICANT: Blatt, Larry

; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease

; FILE REFERENCE: 400/007 (MBH00-918-A)

; CURRENT APPLICATION NUMBER: US/09/745,237A

; CURRENT FILING DATE: 2002-04-15

; NUMBER OF SEQ ID NOS: 4550

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 480

; LENGTH: 17

; TYPE: RNA

; ORGANISM: Homo sapiens

US-09-745-237A-480

Query Match 1.3%; Score 13.4; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 70;

Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 55 GCGGCTGCCCGGGA 69

|||||

Db 1 GCGGCTGCCCGGGA 15

## RESULT 121

US-09-745-237A-1013

; Sequence 1013, Application US/09745237A

; Publication No. US20030143708A1

; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.

; APPLICANT: Blatt, Larry

; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease

; FILE REFERENCE: 400/007 (MBH00-918-A)

; CURRENT APPLICATION NUMBER: US/09/745,237A

; CURRENT FILING DATE: 2002-04-15

; NUMBER OF SEQ ID NOS: 4550

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 1013

; LENGTH: 17

; TYPE: RNA

; ORGANISM: Homo sapiens

US-09-745-237A-1013

Query Match 1.3%; Score 13.4; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 70;

Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 55 GCGGCTGCCCGGGA 69

|||||

Db 3 GCGGCTGCCCGGGA 17

## RESULT 122

US-09-817-879-3076

; Sequence 3076, Application US/09817879

; Publication No. US20030171311A1

; GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals Inc.

; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related

; FILE REFERENCE: MBH00-801-F

; CURRENT APPLICATION NUMBER: US/09/817,879

; CURRENT FILING DATE: 2001-03-26

; NUMBER OF SEQ ID NOS: 9703

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3076

; LENGTH: 17

; TYPE: RNA

; ORGANISM: artificial sequence

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION:

; OTHER INFORMATION: oligonucleotide substrate

US-09-817-879-3076

Query Match 1.3%; Score 13.4; DB 1; Length 17;

Best Local Similarity 93.3%; Pred. No. 70;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 795 CACACACCCCGGAG 809

|||||

Db 3 CACACACCCCGGAG 17

## RESULT 123

US-10-342-902-346/c

; Sequence 346, Application US/10342902

; Publication No. US20040054156A1

; GENERAL INFORMATION:

; APPLICANT: Sirna Therapeutics, Inc.

; APPLICANT: Draper, Kenneth

; APPLICANT: Blatt, Larry

; APPLICANT: McSwiggen, Jim

; APPLICANT: Morrissey, Dave

; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication

; FILE REFERENCE: 400/075 (MBH00-845-I)

; CURRENT APPLICATION NUMBER: US/10/342,902

; CURRENT FILING DATE: 2003-01-15

; PRIOR APPLICATION NUMBER: US 09/877,478

; PRIOR FILING DATE: 2001-06-08

; PRIOR APPLICATION NUMBER: US 09/531,025

; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6592  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 346  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-10-342-902-346

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 373 GCGGAGAAGCGGCG 387  
Db 15 GCGGAGAAGCGGCG 1

## RESULT 124

US-10-342-902-1056/c  
; Sequence 1056, Application US/10342902  
; Publication No. US20040054156A1

## GENERAL INFORMATION:

; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: 400/075 (MBH00-845-I)  
; CURRENT APPLICATION NUMBER: US/10/342,902  
; CURRENT FILING DATE: 2003-01-15

; PRIOR APPLICATION NUMBER: US 09/877,478  
; PRIOR FILING DATE: 2001-06-08  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6592  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1056  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-10-342-902-1056

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 373 GCGGAGAAGCGGCG 387  
Db 16 GCGGAGAAGCGGCG 2

## RESULT 125

US-10-430-882-769  
; Sequence 769, Application US/10430882  
; Publication No. US20030203870A1

## GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Lawrence Blatt  
; APPLICANT: James McSwiggen  
; APPLICANT: Bharat Chowrira  
; APPLICANT: Peter Haerberli  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor Ge

; FILE REFERENCE: MBH00-878-H (400/112)  
; CURRENT APPLICATION NUMBER: US/10/430,882  
; CURRENT FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 09/827,395  
; PRIOR FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: 09/780,533  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: PCT/US01/04273  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: PCT/US02/10512  
; PRIOR FILING DATE: 2002-04-03  
; NUMBER OF SEQ ID NOS: 2617  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 769  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-430-882-769

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 80 AGCGGGCAGCGGG 94  
Db 3 AGCGGGCAGCGGG 17

## RESULT 126

US-10-430-882-770  
; Sequence 770, Application US/10430882  
; Publication No. US20030203870A1

## GENERAL INFORMATION:

; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Lawrence Blatt  
; APPLICANT: James McSwiggen  
; APPLICANT: Bharat Chowrira  
; APPLICANT: Peter Haerberli  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO and NOGO Receptor Ge

; FILE REFERENCE: MBH00-878-H (400/112)  
; CURRENT APPLICATION NUMBER: US/10/430,882  
; CURRENT FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 09/827,395  
; PRIOR FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: 09/780,533  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: PCT/US01/04273  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/181,797  
; PRIOR FILING DATE: 2000-02-11  
; PRIOR APPLICATION NUMBER: PCT/US02/10512  
; PRIOR FILING DATE: 2002-04-03  
; NUMBER OF SEQ ID NOS: 2617  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 770  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-430-882-770

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 81 GGCGGGCAGCGGGG 95  
Db 1 GGCGGGCAGCGGGG 15

## RESULT 127

US-10-041-856-45/c  
; Sequence 45, Application US/10041856  
; Publication No. US20020169299A1  
; GENERAL INFORMATION:  
; APPLICANT: SLAUGENHAUPT, SUSAN  
; APPLICANT: GUSELLA, JAMES F.  
; TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL  
; TITLE OF INVENTION: DYSAUTONOMIA  
; FILE REFERENCE: 1829-4004US1  
; CURRENT APPLICATION NUMBER: US/10/041,856  
; CURRENT FILING DATE: 2002-07-08  
; PRIOR APPLICATION NUMBER: 60/260,080  
; PRIOR FILING DATE: 2001-01-06  
; NUMBER OF SEQ ID NOS: 88  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 45  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Mus sp.  
US-10-041-856-45

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 531 CTGGAAGCAGCAATG 545  
Db 15 CTGGAAGCAAGAATG 1

## RESULT 128

US-10-020-141-15  
; Sequence 15, Application US/10020141  
; Publication No. US20030092013A1  
; GENERAL INFORMATION:  
; APPLICANT: McCarthy, Jeanette  
; APPLICANT: Ableson, Allen  
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE  
; FILE REFERENCE: MMI-002  
; CURRENT APPLICATION NUMBER: US/10/020,141  
; CURRENT FILING DATE: 2001-12-14  
; PRIOR APPLICATION NUMBER: US 60/313,097  
; PRIOR FILING DATE: 2001-08-16  
; PRIOR APPLICATION NUMBER: US 60/327,485  
; PRIOR FILING DATE: 2001-10-05  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-020-141-15

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GAGCCCTGAGGAGG 17  
Db 3 GAGCCCGAGGAGG 17

## RESULT 129

US-10-060-895A-751/c  
; Sequence 751, Application US/10060895A  
; Publication No. US20030104403A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhang, Jian  
; APPLICANT: Gu, Yizhong  
; TITLE OF INVENTION: HUMAN UDP-GALNAc:POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE 10  
; FILE REFERENCE: PB0158  
; CURRENT APPLICATION NUMBER: US/10/060,895A  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 09/864,761  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/315,984  
; PRIOR FILING DATE: 2001-08-30  
; NUMBER OF SEQ ID NOS: 1682  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 751  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-060-895A-751

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 31 GCCCTCAAGCGGAGC 45  
Db 17 GCCCTCAATGCGAGC 3

## RESULT 130

US-10-060-895A-754/c  
; Sequence 754, Application US/10060895A  
; Publication No. US20030104403A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhang, Jian  
; APPLICANT: Gu, Yizhong  
; TITLE OF INVENTION: HUMAN UDP-GALNAc:POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE 10  
; FILE REFERENCE: PB0158  
; CURRENT APPLICATION NUMBER: US/10/060,895A  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 09/864,761  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/315,984  
; PRIOR FILING DATE: 2001-08-30  
; NUMBER OF SEQ ID NOS: 1682  
; SOFTWARE: Aescica Sequence Listing Engine  
; SEQ ID NO 754  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-060-895A-754

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 30 AGCCTCAAGCGGAG 44  
Db 15 AGCCTCAATCGGAG 1

RESULT 131  
US-10-163-552-8/c  
; Sequence 8, Application US/10163552  
; Publication No. US20030105051A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Nucleic acid treatment of diseases or conditions related to level  
; TITLE OF INVENTION: HER2  
; FILE REFERENCE: MEHB01-1653-A (400/014)  
; CURRENT APPLICATION NUMBER: US/10/163,552  
; CURRENT FILING DATE: 2002-06-06  
; NUMBER OF SEQ ID NOS: 1997  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 8  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-163-552-8

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 49 GCGCGCGCGGTGCC 63  
Db 16 GCGCGCGCGGTGCC 2

RESULT 132  
US-10-156-306-4923  
; Sequence 4923, Application US/10156306  
; Publication No. US20030119017A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related  
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR  
; FILE REFERENCE: MEHB01-664-A (400/050)  
; CURRENT APPLICATION NUMBER: US/10/156,306  
; CURRENT FILING DATE: 2002-05-28  
; NUMBER OF SEQ ID NOS: 8013  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4923  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-156-306-4923

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 80.0%; Pred. No. 70;  
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 149 AGCTGGACCAAGTGC 163  
Db 1 AGUGGACCAAGTGC 15

RESULT 133  
US-10-156-306-5924  
; Sequence 5924, Application US/10156306  
; Publication No. US20030119017A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related  
; TITLE OF INVENTION: Levels of IKK-Gamma and PKR  
; FILE REFERENCE: MEHB01-664-A (400/050)  
; CURRENT APPLICATION NUMBER: US/10/156,306  
; CURRENT FILING DATE: 2002-05-28  
; NUMBER OF SEQ ID NOS: 8013  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 5924  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-156-306-5924

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 80.0%; Pred. No. 70;  
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
Qy 149 AGCTGGACCAAGTGC 163  
Db 2 AGCUGGACCAAGTGC 16

RESULT 134  
US-10-153-244-268  
; Sequence 268, Application US/10153244  
; Publication No. US20030144191A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL TRP CHANNEL FAMILY MEMBER, TRP-PL1  
; TITLE OF INVENTION: SPLICE VARIANTS THEREOF  
; FILE REFERENCE: D0144 NP  
; CURRENT APPLICATION NUMBER: US/10/153,244  
; CURRENT FILING DATE: 2002-05-22  
; PRIOR APPLICATION NUMBER: US 60/292,599  
; PRIOR FILING DATE: 2001-05-22  
; PRIOR APPLICATION NUMBER: US 60/362,944  
; PRIOR FILING DATE: 2002-03-08  
; NUMBER OF SEQ ID NOS: 335  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 268  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-153-244-268

Query Match 1.3%; Score 13.4; DB 1; Length 17;  
Best Local Similarity 93.3%; Pred. No. 70;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 246 TGGACCGCGCTTCCA 260  
Db 3 TGGACCGCGCTTCCA 17

RESULT 135  
US-10-297-068-764  
; Sequence 764, Application US/10297068



```
; Publication No. US20030228585A1
; GENERAL INFORMATION:
; APPLICANT: INOKO, Hidetoshi
; APPLICANT: KAGIYA, Taeko
; APPLICANT: ICHIHARA, Tatsuo
; APPLICANT: Matsumura, Yoshiyuki
; APPLICANT: MORIYA, Shogo
; APPLICANT: NISHIDA, Michio
; TITLE OF INVENTION: KIT AND METHOD FOR DETERMINING HLA TYPES
; FILE REFERENCE: 13140P1174
; CURRENT APPLICATION NUMBER: US/10/297,068
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: JP 2000-164798
; PRIOR FILING DATE: 2000-06-01
; NUMBER OF SEQ ID NOS: 1298
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 764
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:capture
US-10-297-068-764

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 78 GGAGCGCGGCAGCGG 92
Db 2 GGAGCGCGGCAGCGG 16

RESULT 136
US-10-138-674-5503/c
; Sequence 5503, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: MHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER: US/10/138,674
; CURRENT FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 20822
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5503
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-138-674-5503

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 93.3%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 444 AGAACTCTCAAGG 458
Db 17 AGAACTCTCAAGG 3

RESULT 137
US-10-676-154-630/c
; Sequence 630, Application US/10676154
; Publication No. US20040081996A1
; GENERAL INFORMATION:
; APPLICANT: John Landers
; APPLICANT: David Houseman
; APPLICANT: Barbara Jordan
; TITLE OF INVENTION: Methods and Products Related to the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: M0656/7045 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/676,154
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 661
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-676-154-661
```

```
; APPLICANT: Alain Charest
; TITLE OF INVENTION: Methods and Products Related to the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: M0656/7045 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/676,154
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: US 60/101,757
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 630
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-676-154-630

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 70;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 240 GGGAGTGGGACCGCT 256
Db 17 GGGAGTGGGACCGCT 1

RESULT 138
US-10-676-154-661
; Sequence 661, Application US/10676154
; Publication No. US20040081996A1
; GENERAL INFORMATION:
; APPLICANT: John Landers
; APPLICANT: David Houseman
; APPLICANT: Barbara Jordan
; APPLICANT: Alain Charest
; TITLE OF INVENTION: Methods and Products Related to the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: M0656/7045 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/676,154
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: US 60/101,757
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 661
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-676-154-661

Query Match      1.3%; Score 13.4; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 70;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 240 GGGAGTGGGACCGCT 256
Db 1 GGGAGTGGGACCGCT 17

RESULT 139
US-10-287-949A-5503/c
; Sequence 5503, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to the Growth of Endothelial Cells
; FILE REFERENCE: M0656/7045 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/676,154
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: PCT/US99/22283
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 691
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 661
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-676-154-661
```

RESULT 143

US-09-274-553D-717  
; Sequence 717, Application US/09274553D  
; Patent No. US20020082225A1  
; GENERAL INFORMATION:  
; APPLICANT: Blatt, Lawrence  
; APPLICANT: McSwiggen, James  
; APPLICANT: Roberts, Beth  
; APPLICANT: Pavco, Pamela  
; APPLICANT: Macejak, Dennis  
; TITLE OF INVENTION: ENZYMIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATED  
; FILE REFERENCE: Pti 247/282  
; CURRENT APPLICATION NUMBER: US/09/274,553D  
; CURRENT FILING DATE: 1999-03-23  
; PRIOR FILING DATE: 1999-02-24  
; PRIOR FILING DATE: 1999-02-24  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR FILING DATE: 1998-04-27  
; NUMBER OF SEQ ID NOS: 3148  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 717  
; LENGTH: 15  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target  
US-09-274-553D-717

Query Match 1.3%; Score 13; DB 1; Length 15;  
Best Local Similarity 61.5%; Pred. No. 95;  
Matches 8; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 693 TCCTCTCTCTGGC 705  
DB 1 UCCUUCUCCUGGC 13

RESULT 144  
US-10-113-877-28  
; Sequence 28, Application US/10113877  
; Publication No. US20020177218A1  
; GENERAL INFORMATION:  
; APPLICANT: Fang, Yu  
; APPLICANT: Wang, Xiao-Yang  
; APPLICANT: Turpin, Pierre  
; TITLE OF INVENTION: Methods of detecting multiple DNA  
; TITLE OF INVENTION: Binding protein and DNA interactions in a sample, and  
; FILE REFERENCE: CLON-071  
; CURRENT APPLICATION NUMBER: US/10/113,877  
; CURRENT FILING DATE: 2002-03-29  
; PRIOR FILING DATE: 2002-03-29  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR FILING DATE: 2001-08-20  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 28  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: oligonucleotide  
US-10-113-877-28

Query Match 1.3%; Score 13; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 95;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 721 CGCACAGTGAAT 733  
|||||

Db 3 CGCACAGTGAAT 15

RESULT 145  
US-09-866-108-8640  
; Sequence 8640, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharon G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 8640  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-8640

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 977 AGAAGTGCAGCTG 989  
DB 5 AGAAGTGCAGCTG 17  
|||||

RESULT 146  
US-09-866-108-8641  
; Sequence 8641, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang

```

; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/006666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 8641
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-8641

Query Match 1.3%; Score 13; DB 1; Length 17;
Best Local Similarity 100.0%; Pred.No. 83;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps

Qy 977 AGAAGTCGAGCTG 989
Db 4 AGAAGTCGAGCTG 16

RESULT 147
US-09-866-108-8642
; Sequence 8642, Application US/09866108
; Patent No. US2002004800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456

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; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 8643  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-8643

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 977 AGAAGTCGACGCTG 989  
Db 2 AGAAGTCGACGCTG 14

## RESULT 149

US-09-866-108-8644  
; Sequence 8644, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: ACOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662

; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Acomica Sequence Listing Engine  
; SEQ ID NO 8644  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-8644

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 977 AGAAGTCGACGCTG 989  
Db 1 AGAAGTCGACGCTG 13

## RESULT 150

US-09-877-478-1055/c  
; Sequence 1055, Application US/09877478  
; Publication No. US20030068301A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Morrissey, Dave  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: MBH800-845-H (400/029)  
; CURRENT APPLICATION NUMBER: US/09/877,478  
; CURRENT FILING DATE: 2001-12-31  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 08/433,993  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 08/434,504  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6586  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1055  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-09-877-478-1055

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 375 GGAGAGCGGCGC 387  
Db 17 GGAGAGCGGCGC 5

## RESULT 151

US-09-877-478-1514/c  
; Sequence 1514, Application US/09877478  
; Publication No. US20030068301A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Morrissey, Dave  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: MHB00-845-H (400/029)  
; CURRENT APPLICATION NUMBER: US/09/877,478  
; CURRENT FILING DATE: 2001-12-31  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 08/433,993  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 08/434,504  
; PRIOR FILING DATE: 1995-05-04  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6586  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1514  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-09-877-478-1514

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 375 GGAGAGCGGGCG 387  
Db 16 GGAGAGCGGGCG 4

## RESULT 152

US-09-740-332-1480/c  
; Sequence 1480, Application US/09740332  
; Publication No. US20030125270A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Hepatitis C Virus Infection  
; FILE REFERENCE: RPI 400/003  
; CURRENT APPLICATION NUMBER: US/09/740,332  
; CURRENT FILING DATE: 2001-03-26  
; NUMBER OF SEQ ID NOS: 9704  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1480  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION:  
; OTHER INFORMATION: oligonucleotide substrate  
US-09-740-332-1480

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 795 CACACCACCCCGA 807  
Db 13 CACACCACCCCGA 1

## RESULT 153

US-09-817-879-1480/c  
; Sequence 1480, Application US/09817879  
; Publication No. US20030171311A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals Inc.  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Hepatitis C Virus Infection  
; FILE REFERENCE: MHB00-801-F  
; CURRENT APPLICATION NUMBER: US/09/817,879  
; CURRENT FILING DATE: 2001-03-26  
; NUMBER OF SEQ ID NOS: 9703  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1480  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION:  
; OTHER INFORMATION: oligonucleotide substrate  
US-09-817-879-1480

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 795 CACACCACCCCGA 807  
Db 13 CACACCACCCCGA 1

## RESULT 154

US-10-342-902-1055/c  
; Sequence 1055, Application US/10342902  
; Publication No. US20040054156A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Morrissey, Dave  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: 400/075 (MHB00-845-I)  
; CURRENT APPLICATION NUMBER: US/10/342,902  
; CURRENT FILING DATE: 2003-01-15  
; PRIOR APPLICATION NUMBER: US 09/877,478  
; PRIOR FILING DATE: 2001-06-08  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6592  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1055  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-10-342-902-1055

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 375 GGAGAGCGGCG 387  
Db 17 GGAGAGCGGCG 5

RESULT 155  
US-10-342-902-1514/c  
; Sequence 1514, Application US/10342902  
; Publication No. US20040054156A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: Blatt, Larry  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Morrissey, Dave  
; TITLE OF INVENTION: Method and Reagent for Inhibiting Hepatitis B Virus Replication  
; FILE REFERENCE: 400/075 (MHB00-845-1)  
; CURRENT APPLICATION NUMBER: US/10/342,902  
; CURRENT FILING DATE: 2003-01-15  
; PRIOR APPLICATION NUMBER: US 09/877,478  
; PRIOR FILING DATE: 2001-06-08  
; PRIOR APPLICATION NUMBER: US 09/531,025  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: US 09/636,385  
; PRIOR FILING DATE: 2000-08-09  
; PRIOR APPLICATION NUMBER: US 09/696,347  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 08/193,627  
; PRIOR FILING DATE: 1994-02-07  
; PRIOR APPLICATION NUMBER: US 07/882,712  
; PRIOR FILING DATE: 1992-05-14  
; PRIOR APPLICATION NUMBER: US 09/436,430  
; PRIOR FILING DATE: 1999-11-08  
; NUMBER OF SEQ ID NOS: 6592  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1514  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Hepatitis B virus  
US-10-342-902-1514

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 375 GGAGAGCGGCG 387  
Db 16 GGAGAGCGGCG 4

RESULT 156  
US-09-927-046-1290  
; Sequence 1290, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1290  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens

; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1290  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-1290

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 69.2%; Pred. No. 83;  
Matches 9; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 605 ATGGATCTGAAT 617  
Db 1 AUGGAUCUGAAU 13

RESULT 157  
US-09-927-046-1610  
; Sequence 1610, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1610  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-09-927-046-1610

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 76.9%; Pred. No. 83;  
Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 978 GAACTGCAGTGT 990  
Db 1 GAACUGCAGCUGU 13

RESULT 158  
US-09-927-046-2024  
; Sequence 2024, Application US/09927046  
; Publication No. US20030064946A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Thompson, Jim  
; APPLICANT: McKenzie, Tim  
; APPLICANT: Ayers, Dave  
; APPLICANT: Grupe, Andrew  
; APPLICANT: Szymkowski, Edmund  
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Calcium Activated Chloride  
; FILE REFERENCE: 249/021  
; CURRENT APPLICATION NUMBER: US/09/927,046  
; CURRENT FILING DATE: 2001-08-09  
; NUMBER OF SEQ ID NOS: 5450  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2024  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens

## US-09-927-046-2024

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 76.9%; Pred. No. 83;  
Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 604 GATGATCTGAAG 616  
||:||||:||||  
Db 5 GAUGGAUCUGAA 17

RESULT 159  
US-10-238-700-5  
; Sequence 5, Application US/10238700  
; Publication No. US20030153521A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level  
; FILE REFERENCE: 400/057 (MBHB01-1158-A)  
; CURRENT APPLICATION NUMBER: US/10/238,700  
; CURRENT FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: PCT/US 02/16840  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: US 60/318,471  
; PRIOR FILING DATE: 2001-09-10  
; NUMBER OF SEQ ID NOS: 4666  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 5  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens

US-10-238-700-5

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 GCGGCGCGGAGG 29  
|||||||  
Db 3 GCGGCGCGGAGG 15

RESULT 160  
US-10-238-700-10  
; Sequence 10, Application US/10238700  
; Publication No. US20030153521A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level  
; FILE REFERENCE: 400/057 (MBHB01-1158-A)  
; CURRENT APPLICATION NUMBER: US/10/238,700  
; CURRENT FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: PCT/US 02/16840  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: US 60/318,471  
; PRIOR FILING DATE: 2001-09-10  
; NUMBER OF SEQ ID NOS: 4666  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 10  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens

US-10-238-700-10

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 114 GCGGCGCGGAGG 126  
|||||||  
Db 3 GCGGCGCGGAGG 15

RESULT 161  
US-10-339-782-491  
; Sequence 491, Application US/10339782  
; Publication No. US20030166026A1  
; GENERAL INFORMATION:  
; APPLICANT: Lynx Therapeutics, Inc.  
; APPLICANT: Goodman, Laurie J  
; APPLICANT: Bowen, Benjamin A  
; TITLE OF INVENTION: Identification of Specific Biomarkers for Breast Cancer Cells  
; FILE REFERENCE: 37-000110US  
; CURRENT APPLICATION NUMBER: US/10/339,782  
; CURRENT FILING DATE: 2003-01-08  
; NUMBER OF SEQ ID NOS: 495  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 491  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-339-782-491

Query Match 1.3%; Score 13; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 83;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 776 CTTTTCAGAGTGG 788  
|||||||  
Db 4 CTTTTCAGAGTGG 16

RESULT 162  
US-10-061-201-808  
; Sequence 808, Application US/10061201  
; Publication No. US20030166229A1  
; GENERAL INFORMATION:  
; APPLICANT: Shannon, Mark  
; TITLE OF INVENTION: HUMAN POSH-LIKE PROTEIN 1  
; FILE REFERENCE: PB0178  
; CURRENT APPLICATION NUMBER: US/10/061,201  
; CURRENT FILING DATE: 2002-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 09/864,761  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/328,205  
; PRIOR FILING DATE: 2001-10-10  
; NUMBER OF SEQ ID NOS: 4162  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 808  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-061-201-808

Query Match 1.3%; Score 12.8; DB 1; Length 17;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;



Qy 409 GCAGCGCGCGCGCGCG 424  
|||||  
Db 1 GCAGCTGCGCGCGCG 16

Search completed: June 28, 2004, 08:16:20  
Job time : 3 secs

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